Delivery Programme

BEHAbelt
Made in Germany

Edition 2013

The specifications
in this catalogue are based on our current knowledge and experience. They do not acquit the processor from testing our products at its own due to the plenty of possible effects during processing application of our products. The legally binding confirmation of certain properties or of the qualification for a certain purpose can not be derived from our specifications. Possible trade mark rights as well as existing laws and regulations are to be followed by recipient of our products at his own responsibility.

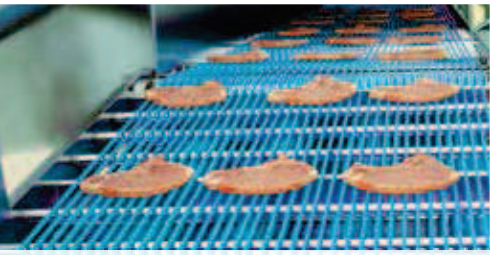
Terms and conditions
Our terms and conditions can be found on our homepage under the following link:
http://www.behabelt.com/terms/agb.pdf

Changes
for the benefit of technical enhancements respectively adoption to modified standards or provisions are provided.

Pictures
in this catalogue are examples of types and are not binding for the type at the time of delivery.

Content

BEHAbelt
Made in Germany



About us

Belt profiles

Special and custom-made profiles

Belt fabrication and coatings

Conveyer belts and tracking profiles

Welding tools and controllers

Know-how

Beha Group of Companies

All companies belonging to the family-owned BEHA Group of Companies are operating in various specialized fields. Therefore we can offer our customers a broad variety of product portfolios built on competent knowledge in any of the specific areas.

Thanks to this unique combination of expert knowledge of all BEHA divisions, we are able to develop products in close cooperation with our customers, which are extremely practical and are especially adapted to the markets.

BEHAbelt

Extruded profiles and the proper welding technology for transport applications are marketed under the trademark BEHAbelt. You will find further information on the following pages of this catalogue.

The following companies within Beha are responsible for BEHAbelt:

BEHAbelt
Made in Germany

Beha Innovation GmbH, Glottertal, Germany

The main production facility with profile extrusion lines and calendared homogeneous flat belt equipment is located at the headquarters in Glottertal. Roll goods and tailored belts along with our complete line of joining equipment from our central warehouse serves our customers in Europe, Asia-Pacific, Africa and Latin America.

Our excellent technical service provides support to our worldwide customers.

BEHAbelt USA Inc., Wood Dale, IL, USA

Our sales office and warehouse centrally located in Chicago IL serves our North America area customers through a network of industrial distributor partners.

Additional sales and application support is provided by our experienced sales team.

Hoover Dam Technology HDT

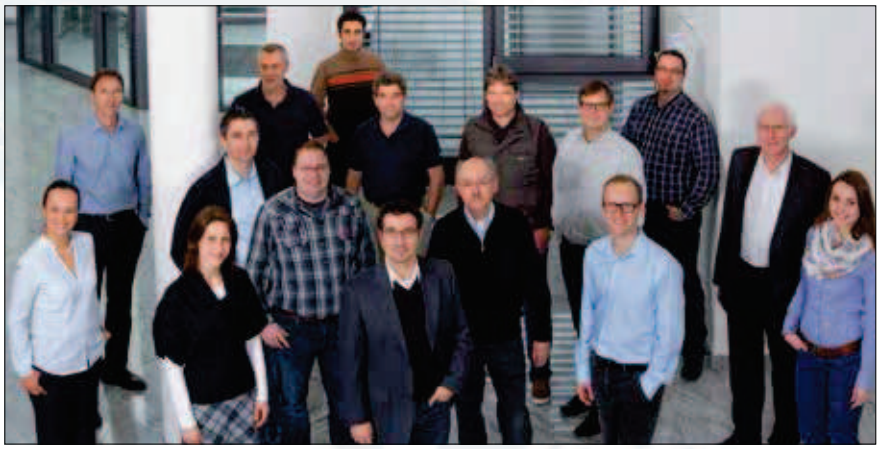
A full-service manufacturer of innovative, high-quality and user-friendly electronic products – such as handheld test instruments, Hoover Dam Technology (HDT) is serving customers worldwide.
With locations in Germany, Serbia, Hong Kong and China we can offer high class service and quality at favorable prices.
HDT provides support to its customers from the idea to market success.

This begins with the product specification and high quality industrial design. Next step is product development meeting exacting specifications followed by manufacturing the product in our own factory in China to complete the package.
Our flexible production system based on TPS enables us to manufacture both large and small quantities of high quality products.

HDT GmbH, Glottertal, Germany

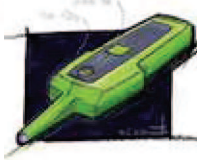
Creative ideas are born and first class products are created in our facility in the heart of the Black Forest. Strategic planning and financial control, key accountmanagement and customer communication all take place in Glottertal.

The technical support group provides initial design and electronic product development for HDT.



Beha R&D d.o.o., Belgrad, Serbien

Final electronic product development is in the town of Nikola Telsa providing a quick turn around on prototyping and production of small quantities.



HDT (Dongguan) Ltd., Kanton, P.R. China

Our factory is located in the center of the electronics industry. There the products are industrialized and then manufactured. The concentrated Know-How of our mechanical development team and our lab for testing of housings and other mechanical parts completes the puzzle for developing new products. They work hand in hand with our electronics development teams in Serbia and Germany.

HDT Asia Ltd., Hong Kong

The Hong Kong facility provides a window to the Chinese market and product management for the factory in China. This gives HDT product management world wide.

We focus on our customers

“We put innovative ideas into practice.”

Company

Beha Innovation GmbH is a German company based in the heart of Europe. We extrude a complete line of the highest quality Polyurethane and Polyester profiles for transport and drive applications. With over 38 years of experience with the market, we know our customers’ needs. We provide quick and accurate service through our main factory in Glottertal Germany, our subsidiary located in USA, as well as our worldwide distribution network.

We focus on our customers

Our success is based on knowledge of the market and serving our customers with a broad line of profiles and belts. Our strategy is to provide the best extruded profiles and homogeneous belts in the market today and lead the industry in new innovative products in the future. Our in house tool shop allows us to react quickly to changing demands in the market. This strategy has resulted in a complete range of high quality products where we hold International trade mark rights and patents.

„Our people make the difference. The combination of motivated people at Beha and our partners worldwide provide the right product and services for our customers.“

Top Quality is our target

„We comply with the requirements of the standard DIN EN ISO 9001”

Top Quality is our target

Our customer service people are linked closely with our customers in the market and work together with them to provide the fastest and most accurate handling of inquiries and orders. We employ a sophisticated logistic process that ensures highest quality of service – worldwide. All procedures and activities are conducted with the highest possible commitment to quality. We comply with the specification of the standard DIN EN ISO 9001.

This is of course also important for our development work so that we always can offer best products, today and in the future.

Our people make the difference

We combine technical expertise and practical experience with excellent social skills to provide the best support available in the industry to our customers. We listen to our customers and encourage them to tell us what they need to be successful. Our corporate philosophy and corporate policy are based on the principal of ethics. We hire employees with good training from the practical side of business. We teach them to work closely with our customers to fill the needs of the market place. Continous improvement of processs and products ensure this.

PU and TPE material properties

Conveyor belts made of Polyurethane and Polyester

Our mission

For 38 years BEHA has produced high quality thermoplastic weldable belts made of Polyurethane and Polyester. Those belts are used for drive applications and conveying.
We use only the very best raw materials and combine them with our experience in the extrusion field to provide time tested and proven products. New products are added to the line only after they have been tested in the laboratory and in the field.
Our mission is to supply our customers with the highest level of quality and innovation in the thermoplastic extrusion industry worldwide. In the following pages, you will find all the important information about material properties, purposes, technical data and joining methods.

Very good properties

The excellent melting ability of the material enables easy welding in order to obtain endless belts. Not only does this result in simplified installation of belts but also allows for reduced inventory as it is no longer necessary to store belts in different lengths.

In the majority of cases when a common drive belt has to be changed, machine and conveyor systems have to be disassembled for the belt replacement. This is not the case if you use BEHAbelt products. BEHAbelt drive and conveyor belts can be installed and endlessly finished without the need of disassembly and in a short period of time. BEHA Innovation GmbH develops and manufactures handy joining tools, which can be used for this purpose.

When our homogeneous materials are properly joined with Beha equipment, the splice is the same strength of the belt.

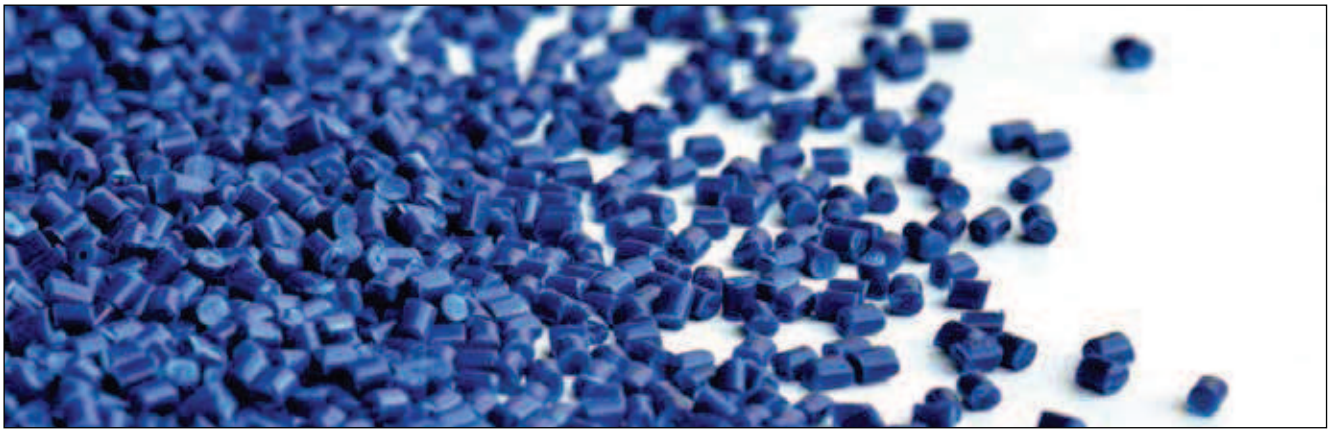
Material qualities

BEHAbelt profile belts and homogeneous flat belts are produced in different compounds in PU 60 A (approx. 65° Shore A) - 95 A (approx. 98° Shore A) and TPE 40 D (approx. 40° Shore D) up to TPE 63 D (approx. 63° Shore D). The selection of materials should be based on application requirements.

Material properties:

- high tensile strength
- excellent wear and abrasion resistance
- high resilience, low level of belt stretching
- resistance to oil, grease, dirt and most chemicals
- temperature resistance from -30°C to +80°C (dynamic)
- high coefficient of friction
- silent running
- excellent weldability
- hydrolysis resistant
- hygienic and easy to clean
- FDA/EC compliant

Chemical characteristics of PU and TPE



General

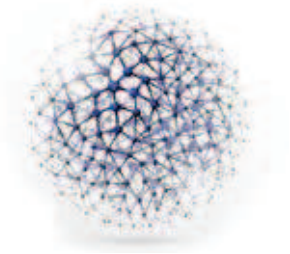
Thermoplastic material can be used in a variety of applications where there is interaction with various chemicals.

Chemical resistance depends on the period of exposure, the temperature, the quantity, the concentration and the type of the chemical substance. It is therefore difficult in any case to make a clear distinction between the effects described below. In the case of chemical degradation of polyurethane the chemical reaction results in cleavage of the molecular chains. In the course of degradation, polyurethane loses strength, and in extreme cases this can lead to disintegration of the part.

For critical applications, a detailed resistance test considering both swelling and the affect on mechanical properties is recommended.

Swelling

Swelling is the fundamental physical process of the absorption of liquid substances by a solid. In this process, the substance enters into the material without chemical interaction. This results in an increase in volume and weight with a corresponding reduction in mechanical values. After evaporation a reduction in swelling occurs and the original properties of the product are almost completely restored. Swelling is a reversible process.
By using reinforcements in the polyurethane, for example polyester or aramid cords, you can almost avoid this mechanical impact on the material.



Hydrolysis resistance

If polyester-based polyurethanes are exposed for lengthy periods to hot water, moisture vapour or tropical climates, an irreversible break-down of the polyester chains occurs through hydrolysis. This results in a reduction in mechanical properties. This effect is more marked in flexible grades, where the polyester content is correspondingly higher than in the harder formulations.

Degradation of polyester-based polyurethanes is however rarely experienced at room temperature. Because of its chemical structure, polyesther-based polyurethanes are much more resistant to hydrolytic degradation.

Microbiological resistance

When using polyester-based thermoplastic polyurethane under climatic conditions of high heat and humidity, parts can be damaged by microbiological attack. In particular, microorganisms producing enzymes are able to affect the molecule chains of polyester-based TPU.
The microbiological attack initially becomes visible as discoloration.

Subsequently, surface cracks occur which enable the microbes to penetrate deeper and to cause a complete destruction of the TPU.

Conveyor belts for the food industry

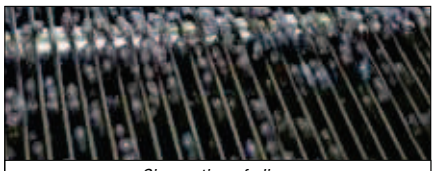
The hydrolysis resistant BEHAbelt transmission and conveyor belts are mainly developed for applications in the food industry with direct food contact.

Important characteristics at a glance:

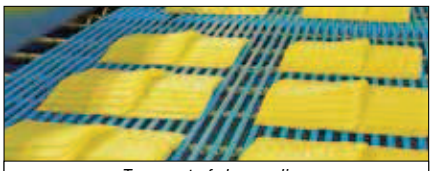
- FDA/EC- compliant
- Especially high durability in wet areas
- Very good hydrolysis resistance and stability against Microbes
- Very good weldability
- All Round- and V-Belts also available with reinforcement on request
- Available with smooth and rough surface
- All BEHAbelt belts in PU 80 A transparent/orange and TPE Polyester of the standard delivery programme are also suitable for applications in the food industry.

Materials/qualities:

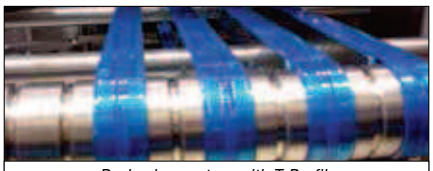
- PU 70 A (approx. 76° Shore A) transparent
- PU 75 A (approx. 80° Shore A) sky blue
- PU 80 A (approx. 84° Shore A) ultramarine blue/ transparent/ orange
- PU 85 A (approx. 88° Shore A) sapphire
- TPE 40D/55D
- Special profiles and further materials on request



Size sorting of olives



Transport of cheese slices



Packaging system with T-Profile

GOOD TO KNOW

General directives for plastics with direct food contact

There are several country-specific and global directives for the application of food contact materials. In general, all food contact materials have to be produced according to the principles of Good Manufacturing Practice (avoiding the occurrence of a health hazard or any other unacceptable change in the composition of the food during its intended use).

FDA Guideline „Title 21: Code of Federal Regulations“

The Food and Drug Administration of the Public Health Service of America is the world‘s best-known authority involved in consumer protection in respect of potential detrimental influences. The FDA has prepared a review “Title 21: Code of Federal Regulations” in respect of their approval of raw materials in a processed or finished state, and also specified the conditions under which the approval is valid.

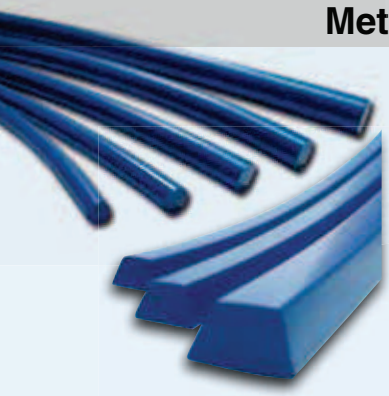
EC Directive 1935/2004, EU Directive No. 10/2011

The framework Regulation EC 1935/2004 (EU Directive No. 10/2011) Food Contact and belonging specific Directive 2002/72/EC Monomers Additives of the European Parliament regulates plastics intended to come into contact with foodstuffs. The EU legislation for food contact materials is based on positive lists of the substances and maximum limits of migration into food. Only substance on these positive lists may be used for manufacturing plastics that are designated to have food contact. Furthermore, you have to show the evidence of the global and specific migration. This can be requested and interpreted differently depending on the application.

BfR „Plastics Recommendations“ for use in the food industry

The German Federal Institute for Risk Assessment (BfR, formerly BgVV) was founded to strengthen the consumer health protection and frames scientific opinions on possible health risks of substances which have food contact. Those recommendations are listed in the framework of the Food and Feed Code (LFGB), known as the „Pastics Regulations“.

Metal detectable profiles and conveyor belts



Metal detectable Polyurethane round and V-belts

Fast moving Polyurethane conveyor belts in the food processing industry are subject to wear and abrasion. The BEHAbelt FDA compliant belt is manufactured in an easy identifiable blue colour, so that it is clearly visible if a small particle gets into the food during the production process.

BEHAbelt introduces a new product range of metal detectable food grade belting to take food processors to the next step in food safety. PU80A Safe belts are made of a special thermo-plastic recipe that allows very small particles to be detected by most standard metal detection equipment used in the food industry.

Metal detection with PU 80A SAFE:

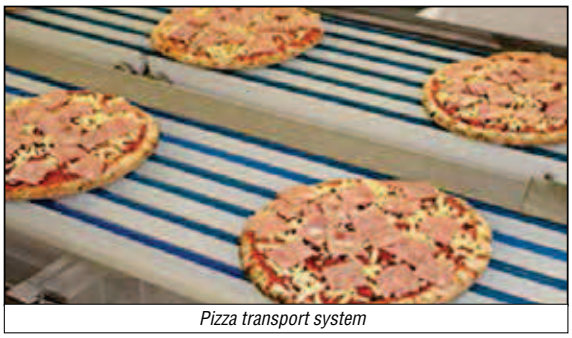
- FDA/EC compliant
- for dry and wet food applications
- allows extremely small pieces to be detected
- ensures food safety by reducing the risk of contamination

Applications / Overview

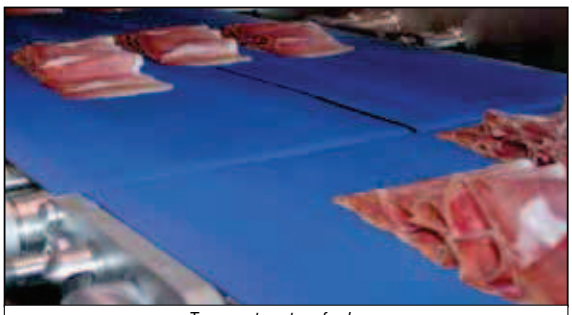
- Especially for the requirements in the food industry we have added homogeneous conveyor belts and completed our range with detectable cleats and guiding profiles. Therefore they also meet the high standards and requirements of HACCP.

Our PU SAFE range:

- PU 80A SAFE round and V-belts
- PU 80A SAFE homogeneous conveyor belts
- PU 70A SAFE V-Guides
- PU 90A SAFE cleats
- PU 80A SAFE sidewalls

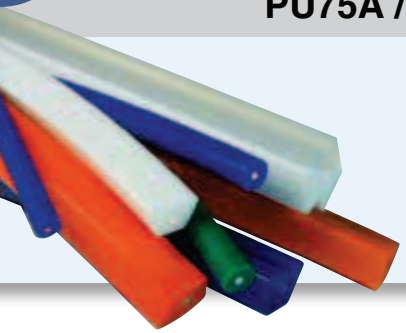


Pizza transport system



Transport system for ham

PU75A / PU85A with weldable reinforcement



Reinforced belts are mainly used for transport of heavy loads or in case of long conveying distances. When joining the belt with the standard reinforcements like polyester or aramid: the splice is the weak point.

Our patented reinforcement can be welded in the classic manner such as non-reinforced belts with full strength in the splice.

PATENT
WELDABLE
reinforcement

Important characteristics at a glance:

- Available with a smooth and rough surface
- Low stretch
- No drilling out of the reinforcement necessary
- Joined with a simple butt weld

Materials/qualities with patented reinforcement:

- PU75A V-belt
- PU85A round, V- and Ridge Top belts

PU75A PLUS, PU85A PLUS – low stretch and high flexibility

Thanks to our patented material mix we are able to optimize our proven standard qualities PU75A and PU85A especially for critical applications with small pulley diameters and heavy loads. With a consistent quality the performance of the belt will be significantly improved concerning stretch and tensile strength without having to change the design of the equipment.

For applications as for example roller conveyors with vertical shafts it becomes more and more difficult to ensure the required belt life and reliable operation - due to restricted space availability and increasing transport load.
Therefore → PU PLUS!

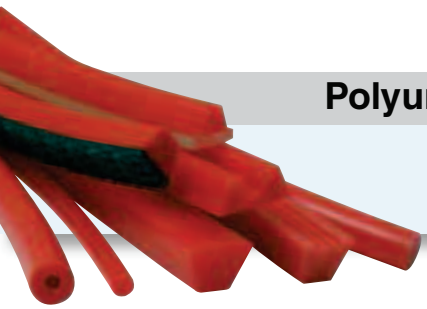
PATENT
LOW ELONGATION

Important characteristics at a glance:

- Available with a matt and rough surface
- Low stretch
- High flexibility for smaller pulley diameters
- Joined with a simple butt weld

Materials/qualities with patented reinforcement:

- PU75A PLUS round belt (matt)
- PU85A PLUS round belt (rough)
- PU85A PLUS V-belt (matt)



Polyurethane type PU 75 A red (approx. 80° Shore A)

The very elastic and flexible BEHAbelt material PU 75 A in red is particularly suitable for lead in conveyors and vertical shafts.

Important characteristics at a glance:

- Very soft belt material
- Very elastic
- High adhesion
- Available with smooth and rough surface
- Very flexible at low temperatures
- Reinforcements available on request
- Shore-Hardness approx. 80° Shore A
- Colour: red and orange (PLUS)

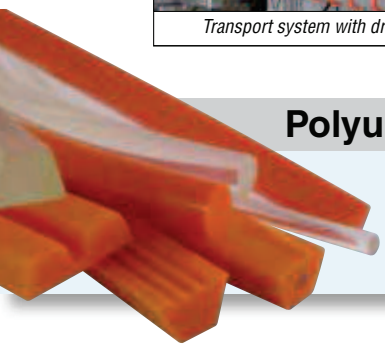
Application examples / industries:

- Furniture industry
- Painting lines
- Returnable bottle systems
- Transport system with drive via vertical shaft
- Guiding profiles for linear tracking to weld on flat and timing belts
- Roller conveyors
- …

Transport system with drive via vertical shaft

Painting lines for sheet metal parts

Transport system with drive via vertical shaft



Polyurethane type PU 80 A transp./orange (approx. 84° Shore A)

The BEHAbelt material PU 80 A is optionally available in transparent and orange colour. The soft Shore-hardness of this PU material is partnered with a high resilience.

Important characteristics at a glance:

- High transparency
- Very good resilience
- Good adhesion
- Available with smooth surface
- Available with/without reinforcement
- Shore-Hardness aprox. 84° Shore A
- Colours: transparent and orange

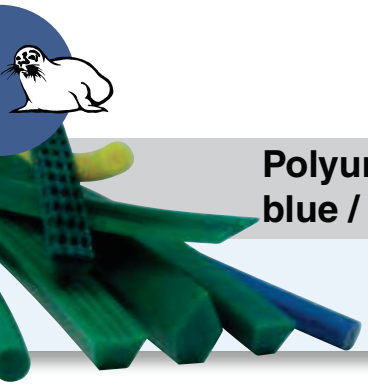
Application examples / industries:

- Solar pannel production
- Transport system for shingles
- Food industry
- …

Sorting machine

Transport system for shingles

Sorting machine



Polyurethane type PU 85 A green / yellow / ultramarine blue / emerald green (approx. 88° Shore A)

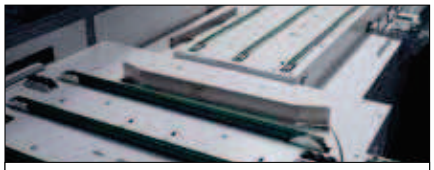
The BEHAbelt all around belt PU 85 A is medium hard and therefore ideally suited for power transfer in machines, devices, metal production, as well as for conveyors of many types.

Important characteristics at a glance:

- Medium Shore-hardness
- Suitable for a large range of applications
- Available with rough and smooth surface
- Also available as static dissipative belt for the electronic industry
- Available with and without reinforcement
- Shore-hardness approx. 88° Shore A
- Colours: green, yellow, ultramarine blue, emerald green

Application examples / industries:

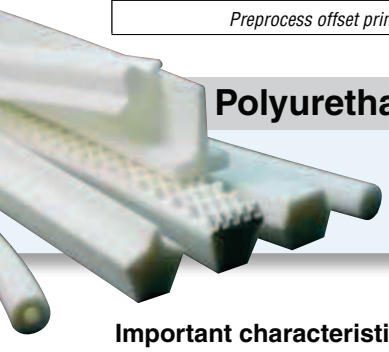
- Ceramic, floor tile and brick industry
- Timber industry
- Furniture industry
- Canteen kitchen
- Paper factory
- Printing industry
- Bowling alleys
- Textile industry
- Electronic manufacturing
- Roller conveyor systems in logistic centres
- …



Preprocess offset printing

Tray transport in canteen

Bowling pinsetter alley



Polyurethane type PU 90 A white (approx. 92° Shore A)

The excellent elasticity and damping characteristics of the BEHAbelt PU 90 A profiles are suited for applications that require medium and heavy loading.

Important characteristics at a glance:

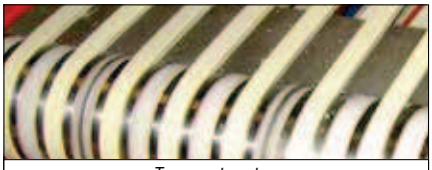
- Excellent elasticity and damping characteristics
- High tensile strength
- Replacement for conventional rubber V-belts
- Available with and without reinforcement
- Shore-hardness approx. 92° Shore A
- Colour: white

Application examples / industries:

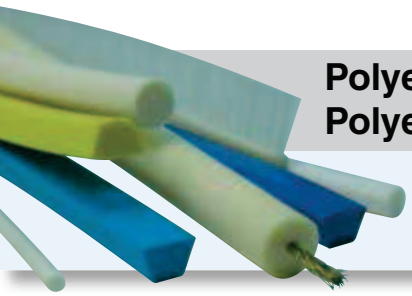
- Ceramic and floor tile industry
- Transport and logistics centres
- …

Conveying machine with lock out

Tile glazing machine



Transport system



Polyester Typ TPE 40 D beige (approx. 92° Shore A)
Polyester Typ TPE 55 D blue /beige (approx. 100° Shore A)

The high performance BEHAbelt Polyester belts TPE 40 D and TPE 55 D are especially designed for high loading and extreme temperatures between -30°C to +100°C (dynamic).

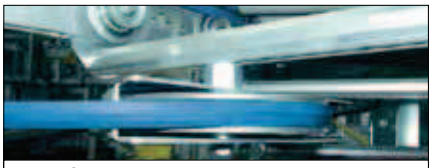
Important characteristics at a glance:

- Very hard quality for high loads
- Suitable for frozen goods
- High cut resistance
- Good gliding properties
- Available with and without reinforcement
- TPE 40 D (40° Shore D or approx. 92° Shore A) beige
- TPE 55 D (55° Shore D or approx. 100° Shore A) beige/blue

Application examples / industries:

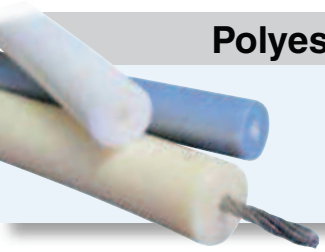
- Pharmaceutical industry and medical technology
- Paint and cleaning systems
- Glass and floor tile industry
- Sheet metal forming
- Roller conveyors
- ...

Accumulating roller conveyor



Curve system for transportation of boxes

Brick production



Polyester type TPE 63 D beige/silver (approx. >100° Shore A)

The reinforced BEHAbelt Polyester profile TPE 63 D uses our hardest standard material quality and is mainly developed as “can cables”. Through its Shore-hardness and special reinforcement, this belt is extremely resilient, abrasion resistant and has a small residual elongation.

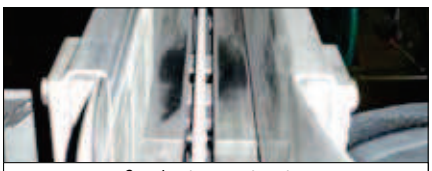
Important characteristics at a glance:

- Highest Shore-hardness
- Profile especially suitable for transportation of cans, bottles and tinned food
- Excellent cut resistance
- Excellent abrasion resistance
- Best gliding properties compared to PU belts and softer Polyester
- Alternative: PU 95 A (approx. 98° Shore A) red smooth, a hard PU with aramid reinforcement
- TPE 63 D (63° Shore D or approx. approx. >100° Shore A)

Application examples / industries:

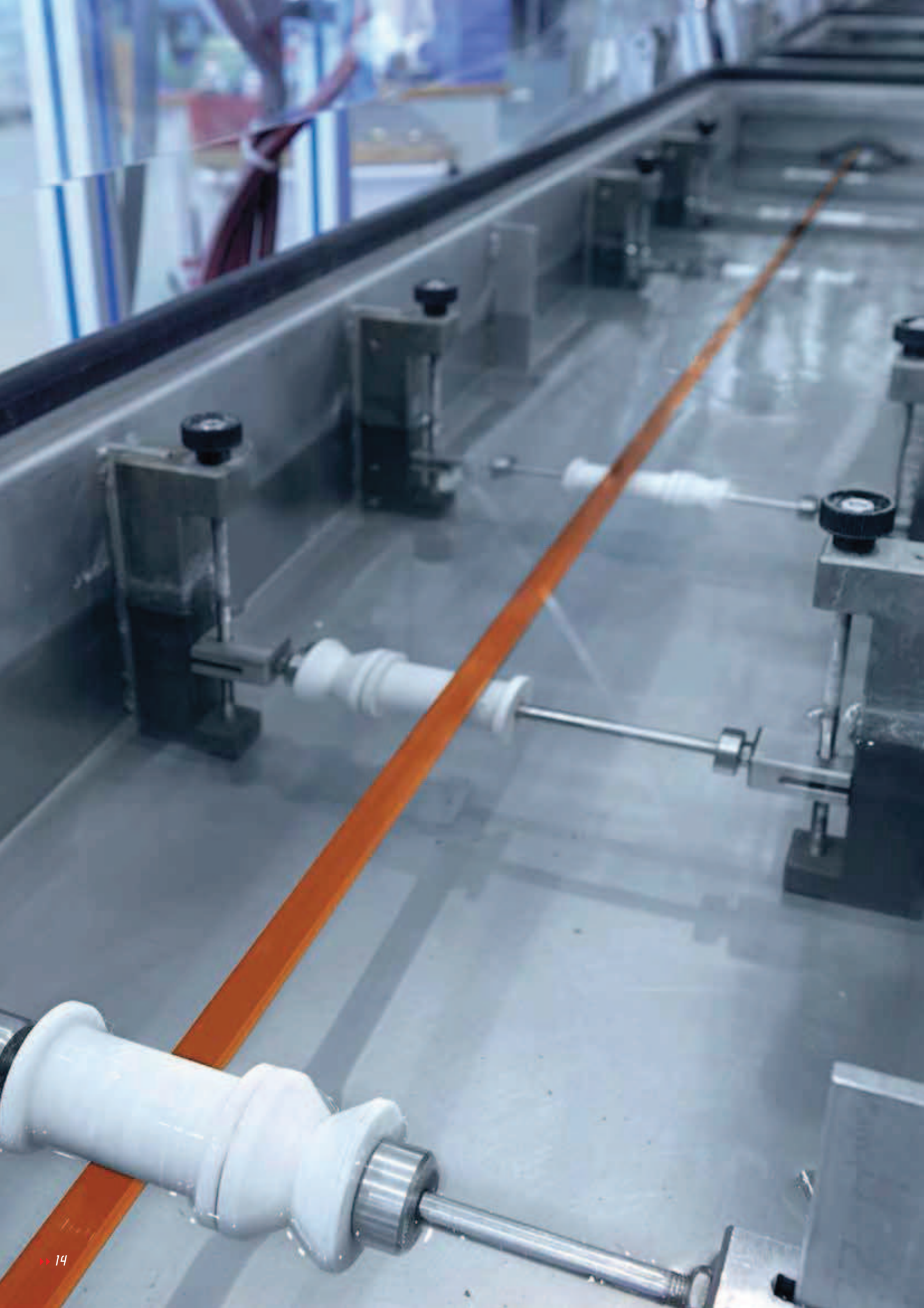
- Systems for filling field crops, cucumbers, onions, tomatoes, … into cans
- Transportation of bottles
- ...

Canning transport system

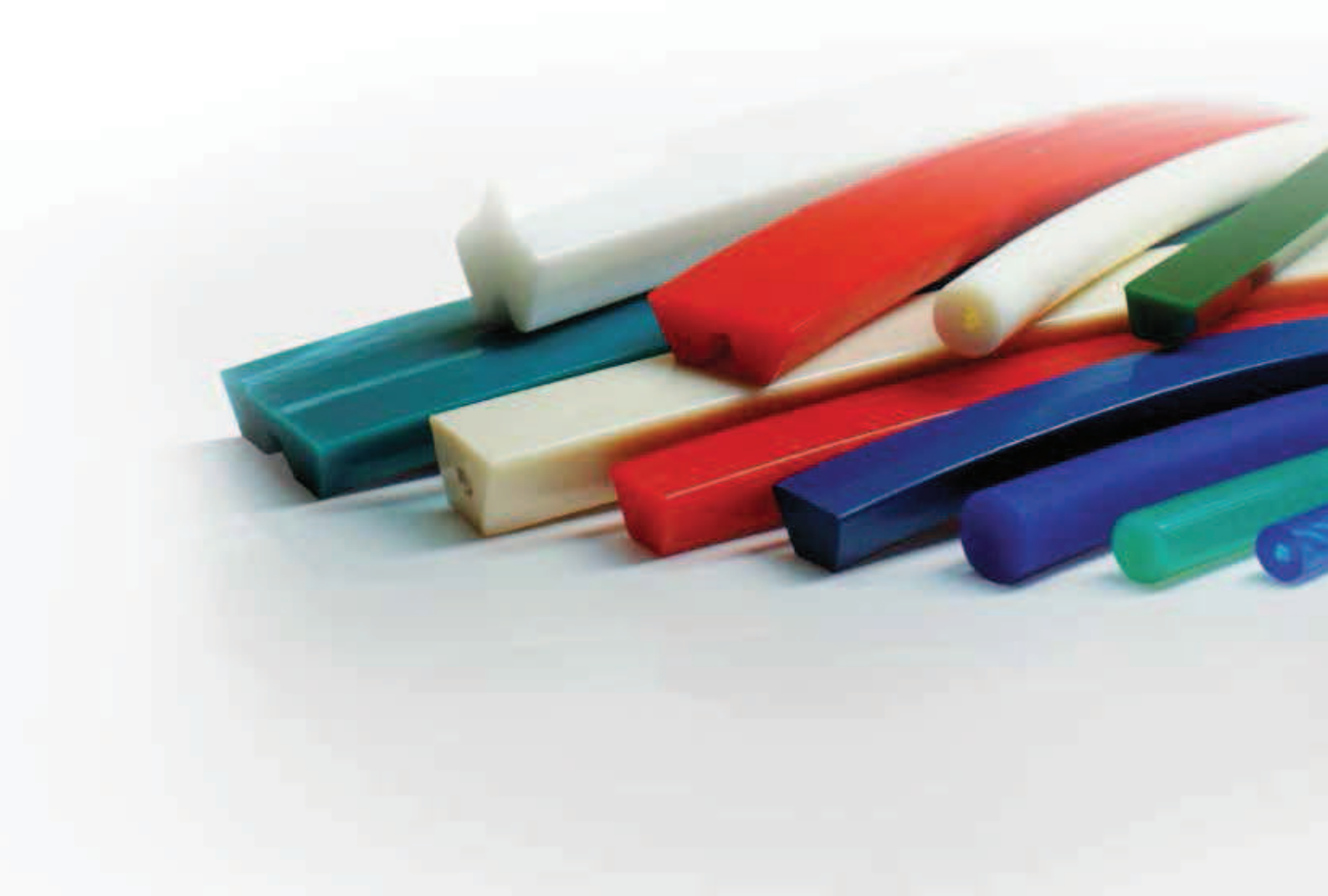


Canning transport system

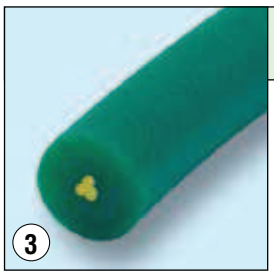
Canning transport system



BEHAbelt
Made in Germany



General explanation of the product tables



(3)

approx. 88° Shore A

(4) • Recommended pretension 0,5 - 2 %

(5) • Working tension

(6) approx. 18 daN/cm²

(7) **Coefficient of friction µ**

• Steel	approx. 0,45
• PE	approx. 0,30
• HDPE	approx. 0,25

PU 85 A green rough, reinforced aramid (2)

(1) Order No.	(8) Diameter ∅		(9) Cross section	(10) approx. Weight	(11) Standard Roll		(12) Recommend. Min. pulley ∅		(13) Fmax/belt (standard)*		(14) Fmax/belt (overlap)	
	mm	inch	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs	daN	lbs
FBZR85A060RA	6,0	7/32	0,283	3,4	100	(328)	60	2,3	10,2	22,4	30,6	67,3
FBZR85A063RA	6,3	1/4	0,310	3,8	100	(328)	65	2,5	11,2	24,6	33,6	73,9
FBZR85A070RA	7,0	9/32	0,385	4,7	100	(328)	70	2,8	13,8	30,4	41,4	91,1
FBZR85A080RA	8,0	5/16	0,500	6,0	100	(328)	80	3,2	18,0	39,6	54,0	118,8
FBZR85A095RA	9,5	3/8	0,710	8,5	100	(328)	95	3,7	25,4	55,9	76,2	167,6

* = coefficient of friction µ:0,5

Key

(1) BEHAbelt order no. (availability, delivery time and min. order quantity on request)

(2) BEHAbelt material type

(3) Colour illustration (Note: original belt colour can differ from the picture)

(4) Approx. Shore-hardness
(Note: PU/TPE profile name is not consistent with the proper Shore-hardness of the belt)

(5) Recommended pretension to tension the belt when installed (%)

(6) Approx. working tension of the PU-TPE material (daN/cm²) 1 daN force ≈ 1kg weight

(7) Coefficient of friction µ on steel, PE and HPDE (refer to coefficients on page 96)

(8) Diameter of profile in mm

(9) Cross section of the profile (for further information and calculation see page 95)

(10) Approx. weight in kg per 100 m of the corresponding profile diameter

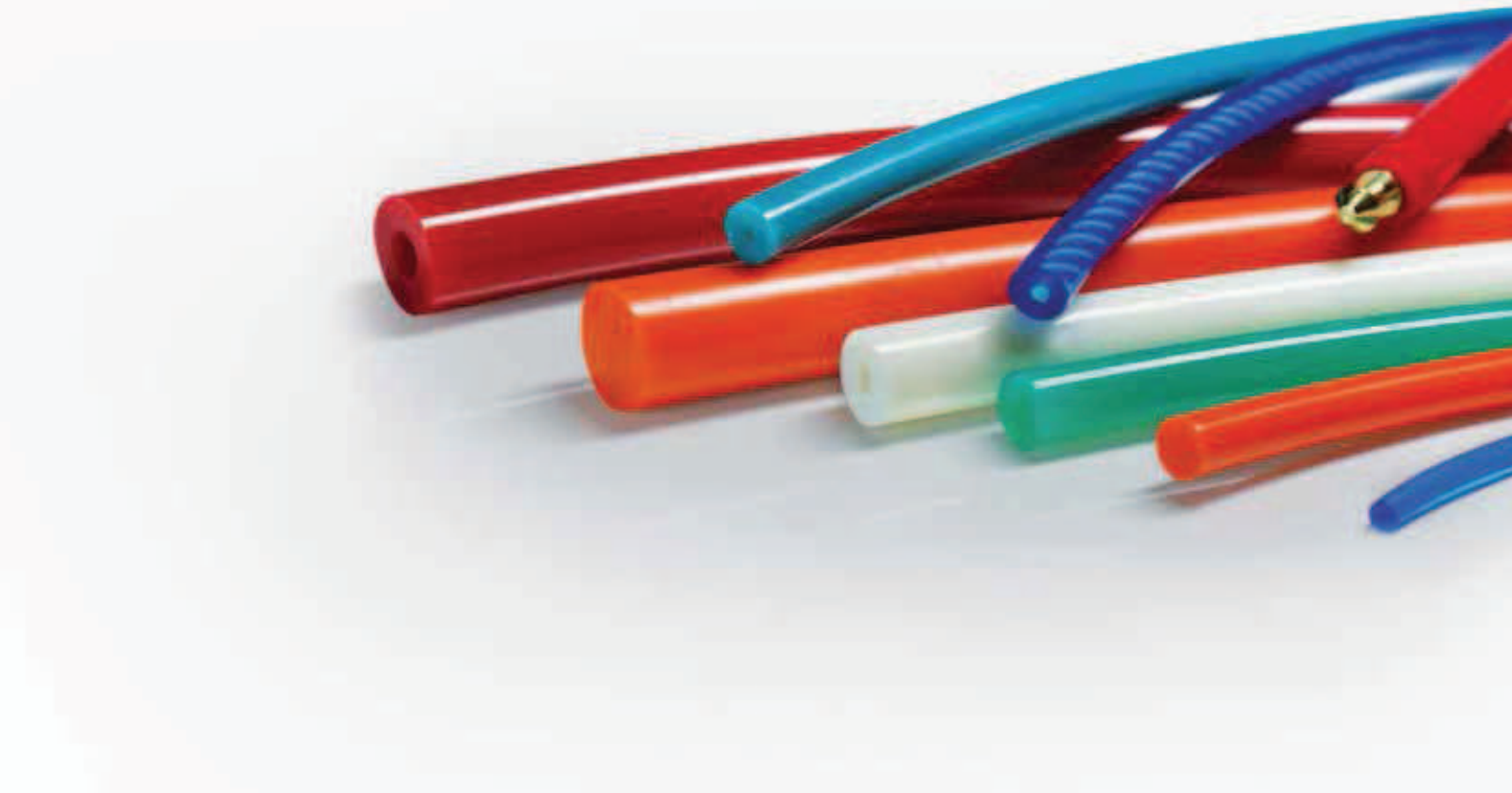
(11) Standard coil lenghts (smaller quantities available with surcharge)
Production unit = without brackets / optional order unit = in brackets

(12) Recommended minimum pulley diameter (in mm)
Smaller pulleys shorten the lifetime of the belt.

(13) Approx. working load of the profile based on a coefficient of friction of µ:0,5 (typical case)
and butt splice (specified in daN/belt and lbs/belt)

(14) Approx. working load of the profile based on a coefficient of friction of µ:0,5 (typical case) and overlap splice
(specified in daN/belt and lbs/belt) (operlap splice with HP01 and overlap length 60mm)

BEHAbelt
Made in Germany



Shore 80 A

PU 75 A sky blue smooth

Food FDA / EC compliant

approx. 80° Shore A

- Recommended pretension 6 - 8 %
- Working tension approx. 12 daN/cm²

Coefficient of friction µ

- Steel approx. 0,70
- PE approx. 0,40
- HDPE approx. 0,35

FDA/EC- conform

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	inch	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBRP75A020HI	2,0	5/64	0,032	0,5	200	(656)	10	0,4	0,8	1,8
FBRP75A030HI	3,0	1/8	0,071	0,9	200	(656)	20	0,8	1,8	4,0
FBRP75A040HI	4,0	5/32	0,126	1,6	200	(656)	30	1,2	3,0	6,6
FBRP75A048HI	4,8	3/16	0,181	2,2	200	(656)	35	1,4	4,4	9,7
FBRP75A050HI	5,0	1/5	0,197	2,4	100	(328)	40	1,6	4,8	10,6
FBRP75A060HI	6,0	7/32	0,283	3,4	100	(328)	50	2,0	6,8	15,0
FBRP75A063HI	6,3	1/4	0,310	3,8	100	(328)	55	2,2	7,4	16,3
FBRP75A070HI	7,0	9/32	0,385	4,7	100	(328)	60	2,4	9,2	20,2
FBRP75A080HI	8,0	5/16	0,500	6,0	100	(328)	65	2,6	12,0	26,4
FBRP75A095HI	9,5	3/8	0,710	8,5	100	(328)	75	3,0	17,0	37,4
FBRP75A100HI	10,0	7/16	0,785	9,4	50	(164)	80	3,2	18,8	41,4
FBRP75A120HI	12,0	15/32	1,130	13,5	50	(164)	90	3,5	27,2	59,8
FBRP75A125HI	12,5	1/2	1,230	14,8	50	(164)	100	3,9	29,6	65,1
FBRP75A150HI	15,0	19/32	1,770	21,5	50	(164)	120	4,7	42,4	93,3

* = coefficient of friction µ:0,5

PU 75 A red smooth

approx. 80° Shore A

- Recommended pretension 6 - 8 %
- Working tension approx. 13 daN/cm²

Coefficient of friction µ

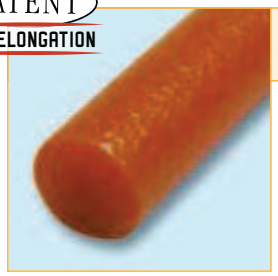
- Steel approx. 0,70
- PE approx. 0,40
- HDPE approx. 0,35

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	inch	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBRP75A020	2,0	5/64	0,032	0,5	200	(656)	10	0,4	0,8	1,8
FBRP75A030	3,0	1/8	0,071	0,9	200	(656)	20	0,8	1,8	4,0
FBRP75A040	4,0	5/32	0,126	1,6	200	(656)	30	1,2	3,2	7,0
FBRP75A048	4,8	3/16	0,181	2,2	200	(656)	35	1,4	4,6	10,1
FBRP75A050	5,0	1/5	0,197	2,4	100	(328)	40	1,6	5,0	11,0
FBRP75A060	6,0	7/32	0,283	3,4	100	(328)	50	2,0	7,4	16,3
FBRP75A063	6,3	1/4	0,310	3,8	100	(328)	55	2,2	8,2	18,0
FBRP75A070	7,0	9/32	0,385	4,7	100	(328)	60	2,4	10,0	22,0
FBRP75A080	8,0	5/16	0,500	6,0	100	(328)	65	2,6	13,2	29,0
FBRP75A095	9,5	3/8	0,710	8,5	100	(328)	75	3,0	18,4	40,5
FBRP75A100	10,0	7/16	0,785	9,4	50	(164)	80	3,2	20,0	44,0
FBRP75A120	12,0	15/32	1,130	13,5	50	(164)	90	3,5	30,0	66,0
FBRP75A125	12,5	1/2	1,230	14,8	50	(164)	100	3,9	32,0	70,4
FBRP75A150	15,0	19/32	1,770	21,5	50	(164)	120	4,7	46,0	101,2
FBRP75A180	18,0	3/4	2,54	31,0	50	(164)	150	5,9	66,0	145,2
FBRP75A200	20,0	25/32	3,14	40,0	50	(164)	170	6,7	82,0	180,4

* = coefficient of friction µ:0,5

Brown on request

PATENT
LOW ELONGATION



PU 75 A PLUS orange matt finish

approx. 80° Shore A

- Recommended pretension 4 - 6 %
- Working tension approx. 16 daN/cm²

Coefficient of friction µ

- Steel approx. 0,70
- PE approx. 0,40
- HDPE approx. 0,35

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	inch	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBRI0200G	2,0	5/64	0,032	0,5	200	(656)	10	0,4	1,0	2,2
FBRI0300G	3,0	1/8	0,071	0,9	200	(656)	20	0,8	2,2	4,8
FBRI0400G	4,0	5/32	0,126	1,6	200	(656)	30	1,2	4,0	8,8
FBRI0480G	4,8	3/16	0,181	2,2	200	(656)	35	1,4	5,8	12,8
FBRI0500G	5,0	1/5	0,197	2,4	100	(328)	40	1,6	6,3	13,9
FBRI0600G	6,0	7/32	0,283	3,4	100	(328)	50	2,0	9,0	19,8
FBRI0630G	6,3	1/4	0,310	3,8	100	(328)	55	2,2	9,9	21,8
FBRI0700G	7,0	9/32	0,385	4,7	100	(328)	60	2,4	12,3	27,1
FBRI0800G	8,0	5/16	0,500	6,0	100	(328)	65	2,6	16,0	35,2
FBRI0950G	9,5	3/8	0,710	8,5	100	(328)	75	3,0	22,7	49,9
FBRI1000G	10,0	7/16	0,785	9,4	50	(164)	80	3,2	25,1	55,2

* = coefficient of friction µ:0,5

PU 75 A sky blue hollow round belt

Food FDA / EC compliant

approx. 80° Shore A

- Recommended pretension: welded 6 - 8 %, Fitting connector max. 4 - 6 %
- Working tension approx. 12 daN/cm²

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	Außen	inch	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBHP75A048HI	4,8	1,8	0,147	1,8	200	(656)	30	1,2	3,6	7,9
FBHP75A063HI	6,3	2,5	0,261	3,2	100	(328)	45	1,8	6,2	13,6
FBHP75A080HI	8,0	3,2	0,420	5,1	100	(328)	55	2,2	10,0	22,2
FBHP75A095HI	9,5	3,8	0,600	7,2	100	(328)	65	2,6	14,4	31,7
FBHP75A125HI	12,5	5,2	1,020	12,4	50	(164)	85	3,4	24,4	53,7
FBHP75A150HI	15,0	5,2	1,560	19,0	50	(164)	100	4,0	37,4	82,3

* = coefficient of friction µ:0,5

Coefficient of friction µ: Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35 | **FDA/EC- conform**

PU 75 A red smooth hollow round belt

approx. 80° Shore A

- Recommended pretension: welded 6 - 8 %, Fitting connector max. 4 - 6 %
- Working tension approx. 13 daN/cm²

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	Außen	inch	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBHP75A048	4,8	1,8	0,147	1,8	200	(656)	30	1,2	3,8	8,4
FBHP75A063	6,3	2,5	0,261	3,2	100	(328)	45	1,8	6,8	15,0
FBHP75A080	8,0	3,2	0,420	5,1	100	(328)	55	2,2	11,0	24,2
FBHP75A095	9,5	3,8	0,600	7,2	100	(328)	65	2,6	15,6	34,3
FBHP75A125	12,5	5,2	1,020	12,4	50	(164)	85	3,4	26,6	58,5
FBHP75A150	15,0	5,2	1,560	19,0	50	(164)	100	4,0	40,4	88,9

* = coefficient of friction µ:0,5

Coefficient of friction µ: Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35

For suitable fitting connectors and infos how to use them please refer to page 85 and 93

Shore 84 A

PU 80 A ultramarine blue smooth

Food FDA / EC compliant

approx. 84° Shore A

- Recommended pretension 6 - 8 %
- Working tension approx. 14 daN/cm²

Coefficient of friction μ

- Steel approx. 0,65
- PE approx. 0,35
- HDPE approx. 0,30

FDA/EC- conform

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	inch	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBRP80A020UB	2,0	5/64	0,032	0,5	200	(656)	15	0,6	0,8	1,8
FBRP80A030UB	3,0	1/8	0,071	0,9	200	(656)	25	1,0	2,0	4,4
FBRP80A040UB	4,0	5/32	0,126	1,6	200	(656)	30	1,2	3,6	7,9
FBRP80A048UB	4,8	3/16	0,181	2,2	200	(656)	40	1,6	5,0	11,0
FBRP80A050UB	5,0	1/5	0,197	2,4	100	(328)	45	1,8	5,6	12,3
FBRP80A060UB	6,0	7/32	0,283	3,4	100	(328)	55	2,2	8,0	17,6
FBRP80A063UB	6,3	1/4	0,310	3,8	100	(328)	60	2,4	8,8	19,4
FBRP80A070UB	7,0	9/32	0,385	4,7	100	(328)	65	2,6	10,8	23,8
FBRP80A080UB	8,0	5/16	0500	6,0	100	(328)	75	3,0	14,0	30,8
FBRP80A095UB	9,5	3/8	0,710	8,5	100	(328)	90	3,6	19,8	43,6
FBRP80A100UB	10,0	7/16	0,785	9,4	50	(164)	95	3,8	22,0	48,4
FBRP80A120UB	12,0	15/32	1,130	13,5	50	(164)	110	4,4	31,6	69,5
FBRP80A125UB	12,5	1/2	1,230	14,8	50	(164)	115	4,6	34,4	75,7
FBRP80A150UB	15,0	19/32	1,770	21,5	50	(164)	140	5,5	49,6	109,1

* = coefficient of friction μ:0,5

PU 80 A ultramarine blue lightly rough

Food FDA / EC compliant

approx. 84° Shore A

- Recommended pretension 6 - 8 %
- Working tension approx. 14 daN/cm²

Coefficient of friction μ

- Steel approx. 0,55
- PE approx. 0,30
- HDPE approx. 0,25

FDA/EC- conform

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	inch	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBRP80A020BA	2,0	5/64	0,032	0,5	200	(656)	15	0,6	0,8	1,8
FBRP80A030BA	3,0	1/8	0,071	0,9	200	(656)	25	1,0	2,0	4,4
FBRP80A040BA	4,0	5/32	0,126	1,6	200	(656)	30	1,2	3,6	7,9
FBRP80A048BA	4,8	3/16	0,181	2,2	200	(656)	40	1,6	5,0	11,0
FBRP80A050BA	5,0	1/5	0,197	2,4	100	(328)	45	1,8	5,6	12,3
FBRP80A060BA	6,0	7/32	0,283	3,4	100	(328)	55	2,2	8,0	17,6
FBRP80A063BA	6,3	1/4	0,310	3,8	100	(328)	60	2,4	8,8	19,4
FBRP80A070BA	7,0	9/32	0,385	4,7	100	(328)	65	2,6	10,8	23,8
FBRP80A080BA	8,0	5/16	0,500	6,0	100	(328)	75	3,0	14,0	30,8
FBRP80A095BA	9,5	3/8	0,710	8,5	100	(328)	90	3,6	19,8	43,6
FBRP80A100BA	10,0	7/16	0,785	9,4	50	(164)	95	3,8	22,0	48,4
FBRP80A120BA	12,0	15/32	1,130	13,5	50	(164)	110	4,4	31,6	69,5
FBRP80A125BA	12,5	1/2	1,230	14,8	50	(164)	115	4,6	34,4	75,7
FBRP80A150BA	15,0	19/32	1,770	21,5	50	(164)	140	5,5	49,6	109,1

* = coefficient of friction μ:0,5

SAFE
Metal detectable

PU 80 A SAFE capri blue smooth

Food FDA / EC compliant

NEW

approx. 84° Shore A

- Recommended pretension 6 - 8 %
- Working tension 15 daN/cm²

Coefficient of friction µ

- Steel approx. 0,65
- PE approx. 0,35
- HDPE approx. 0,30

FDA/EC- conform

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	inch	cm²	kg/100 m	m	ft	mm	inch	daN	lbs
FBRJ020LGM	2,0	5/64	0,032	0,5	200	(656)	15	0,6	0,8	1,8
FBRJ030LGM	3,0	1/8	0,071	0,9	200	(656)	25	1,0	2,0	4,4
FBRJ032LGM	3,2	1/8	0,071	0,9	(30,48)	100	25	1,0	2,1	4,6
FBRJ040LGM	4,0	5/32	0,126	1,6	200	(656)	30	1,2	3,6	7,9
FBRJ048LGM	4,8	3/16	0,181	2,2	(30,48)	100	40	1,6	5,0	11,0
FBRJ050LGM	5,0	1/5	0,197	2,4	100	(328)	45	1,8	5,6	12,3
FBRJ060LGM	6,0	7/32	0,283	3,4	100	(328)	55	2,2	8,0	17,6
FBRJ063LGM	6,3	1/4	0,310	3,8	(30,48)	100	60	2,4	8,6	18,9
FBRJ070LGM	7,0	9/32	0,385	4,7	100	(328)	65	2,6	11,6	25,5
FBRJ079LGM	7,9	5/16	0,500	6,0	(30,48)	100	75	3,0	15,0	33,0
FBRJ080LGM	8,0	5/16	0,500	6,0	100	(328)	75	3,0	15,0	33,0
FBRJ095LGM	9,5	3/8	0,710	8,5	(30,48)	100	90	3,5	21,2	46,6
FBRJ100LGM	10,0	7/16	0,785	9,4	50	(164)	95	3,7	23,6	51,9
FBRJ120LGM	12,0	15/32	1,130	13,5	50	(164)	110	4,3	34,0	74,8
FBRJ125LGM	12,5	1/2	1,230	14,8	(30,48)	100	115	4,5	36,8	81,0
FBRJ143LGM	14,3	9/16	1,605	21	(30,48)	100	130	5,1	46,2	101,6
FBRJ150LGM	15,0	19/32	1,770	21,5	50	(164)	140	5,5	53,0	116,6

* = coefficient of friction µ:0,5

PU 80 A transparent smooth

Food FDA / EC compliant

approx. 84° Shore A

- Recommended pretension 6 - 8 %
- Working tension approx. 15 daN/cm²

Coefficient of friction µ

- Steel approx. 0,65
- PE approx. 0,35
- HDPE approx. 0,30

FDA/EC- conform

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	inch	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBRP80A020TR	2,0	5/64	0,032	0,5	200	(656)	15	0,6	1,0	2,2
FBRP80A030TR	3,0	1/8	0,071	0,9	200	(656)	25	1,0	2,0	4,4
FBRP80A040TR	4,0	5/32	0,126	1,6	200	(656)	30	1,2	3,8	8,4
FBRP80A048TR	4,8	3/16	0,181	2,2	200	(656)	40	1,6	5,4	11,9
FBRP80A050TR	5,0	1/5	0,197	2,4	100	(328)	45	1,8	5,8	12,7
FBRP80A060TR	6,0	7/32	0,283	3,4	100	(328)	55	2,2	8,4	18,5
FBRP80A063TR	6,3	1/4	0,310	3,8	100	(328)	60	2,4	9,4	20,7
FBRP80A070TR	7,0	9/32	0,385	4,7	100	(328)	65	2,6	11,6	25,5
FBRP80A080TR	8,0	5/16	0,500	6,0	100	(328)	75	3,0	15,0	33,0
FBRP80A095TR	9,5	3/8	0,710	8,5	100	(328)	90	3,5	21,2	46,6
FBRP80A100TR	10,0	7/16	0,785	9,4	50	(164)	95	3,7	23,6	51,9
FBRP80A120TR	12,0	15/32	1,130	13,5	50	(164)	110	4,3	34,0	74,8
FBRP80A125TR	12,5	1/2	1,230	14,8	50	(164)	115	4,5	36,8	81,0
FBRP80A150TR	15,0	19/32	1,770	21,5	50	(164)	140	5,5	53,0	116,6
FBRP80A180TR	18,0	3/4	2,54	31,0	50	(164)	170	6,7	76,2	167,6
FBRP80A200TR	20,0	25/32	3,14	40,0	50	(164)	180	7,1	94,0	206,8

* = coefficient of friction µ:0,5

Shore 84 A

PU 80 A orange smooth

Food FDA / EC compliant

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	inch	cm²	kg/100 m	ft	(m)	mm	inch	daN	lbs
FBRP84A020	2,0	5/64	0,032	0,5	100	(30,48)	15	0,6	1,0	2,2
FBRP84A032	3,2	1/8	0,071	0,9	100	(30,48)	25	1,0	2,0	4,4
FBRP84A032	3,2	1/8	0,071	0,9	500	(152,4)	25	1,0	2,1	4,6
FBRP84A040	4,0	5/32	0,126	1,6	100	(30,48)	30	1,2	3,8	8,4
FBRP84A048	4,8	3/16	0,181	2,2	100	(30,48)	40	1,6	5,4	11,9
FBRP84A048A	4,8	3/16	0,181	2,2	500	(152,4)	40	1,6	5,4	11,9
FBRP84A050	5,0	1/5	0,197	2,4	100	(30,48)	45	1,8	5,8	12,8
FBRP84A060	6,0	7/32	0,283	3,4	100	(30,48)	55	2,2	8,4	18,5
FBRP84A063	6,3	1/4	0,310	3,8	100	(30,48)	60	2,4	9,4	20,7
FBRP84A063A	6,3	1/4	0,310	3,8	500	(152,4)	60	2,4	9,4	20,7
FBRP84A070	7,0	9/32	0,385	4,7	100	(30,48)	65	2,6	11,6	25,5
FBRP84A079	7,9	5/16	0,500	6,0	100	(30,48)	75	3,0	15,0	33,0
FBRP84A079A	7,9	5/16	0,500	6,0	500	(152,4)	75	3,0	15,0	33,0
FBRP84A095	9,5	3/8	0,710	8,5	100	(30,48)	90	3,5	21,2	46,6
FBRP84A095	9,5	3/8	0,710	8,5	500	(152,4)	90	3,5	21,2	46,6
FBRP84A100	10,0	7/16	0,785	9,4	100	(30,48)	95	3,7	23,6	51,9
FBRP84A120	12,0	15/32	1,130	13,5	100	(30,48)	110	4,3	34,0	74,8
FBRP84A127	12,7	1/2	1,230	14,8	100	(30,48)	115	4,5	36,8	81,0
FBRP84A143	14,3	9/16	1,605	21,0	100	(30,48)	130	5,1	46,2	101,6
FBRP84A159	15,9	6/8	1,985	22,5	100	(30,48)	150	5,9	60,0	132,0
FBRP84A190	19,0	3/4	2,83	31,0	100	(30,48)	170	6,7	85,0	187,0

* = coefficient of friction μ:0,5

approx. 84° Shore A

- Recommended pretension 6 - 8 %
- Working tension approx. 15 daN/cm²

Coefficient of friction μ

- Steel approx. 0,65
- PE approx. 0,35
- HDPE approx. 0,30

FDA/EC- conform

PU 80 A orange smooth, reinforced polyester

Food FDA / EC compliant

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*		Fmax/ Riemen (Überlapp)	
	mm	inch	cm²	kg/100 m	ft	(m)	mm	inch	daN	lbs	daN	lbs
FBRJ060OGA	6,0	7/32	0,283	3,4	100	(30,48)	55	2,2	8,4	18,5	25,2	55,4
FBRJ063OGA	6,3	1/4	0,310	3,8	100	(30,48)	60	2,4	9,4	20,7	28,2	62,0
FBRJ070OGA	7,0	9/32	0,385	4,7	100	(30,48)	65	2,6	11,6	25,5	33,9	74,6
FBRJ080OGA	8,0	5/16	0,500	6,0	100	(30,48)	80	3,2	15,0	33,0	45,0	99,0
FBRJ095OGA	9,5	3/8	0,710	8,5	100	(30,48)	90	3,6	21,2	46,6	63,6	139,9
FBRJ100OGA	10,0	7/16	0,785	9,4	100	(30,48)	100	4	23,6	51,9	70,8	155,8
FBRJ120OGA	12,0	15/32	1,130	13,5	100	(30,48)	110	4,4	34,0	74,8	102,0	224,4
FBRJ125OGA	12,5	1/2	1,230	14,8	100	(30,48)	115	4,6	36,8	81,0	110,4	242,9
FBRJ143OGA	14,3	9/16	1,605	21,0	100	(30,48)	130	5,2	46,2	101,6	138,6	304,9
FBRJ190OGA	19,0	3/4	2,83	31,0	100	(30,48)	170	6,8	85,0	187,0	255,0	561,0
FBRJ200OGA	20,0	25/32	3,14	40,0	100	(30,48)	190	7,6	94,0	206,8	282,0	620,4

* = coefficient of friction μ:0,5

approx. 84° Shore A

- Recommended pretension 0,5 - 2 %
- Working tension approx. 15 daN/cm²

Coefficient of friction μ

- Steel approx. 0,65
- PE approx. 0,35
- HDPE approx. 0,30

FDA/EC-conform

PU 85 A sapphire blue smooth

Food FDA / EC compliant

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	inch	cm^2	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBRK020LGAAA	2,0	5/64	0,032	0,5	200	(656)	15	0,6	1,0	2,2
FBRK030LGAAA	3,0	1/8	0,071	0,9	200	(656)	25	1	2,4	5,3
FBRK040LGAAA	4,0	5/32	0,126	1,6	200	(656)	35	1,4	4,2	9,2
FBRK048LGAAA	4,8	3/16	0,181	2,2	200	(656)	45	1,8	6,2	13,6
FBRK050LGAAA	5,0	1/5	0,197	2,4	100	(328)	50	2	6,6	14,5
FBRK060LGAAA	6,0	7/32	0,283	3,4	100	(328)	60	2,4	9,6	21,1
FBRK063LGAAA	6,3	1/4	0,310	3,8	100	(328)	65	2,6	10,6	23,3
FBRK070LGAAA	7,0	9/32	0,385	4,7	100	(328)	70	2,8	13,0	28,6
FBRK080LGAAA	8,0	5/16	0,500	6,0	100	(328)	80	3,2	17,0	37,4
FBRK095LGAAA	9,5	3/8	0,710	8,5	100	(328)	95	3,8	24,2	53,2
FBRK100LGAAA	10,0	7/16	0,785	9,4	50	(164)	100	4	26,6	58,5
FBRK120LGAAA	12,0	15/32	1,130	13,5	50	(164)	120	4,8	38,4	84,5
FBRK125LGAAA	12,5	1/2	1,230	14,8	50	(164)	125	5	41,8	92,0
FBRK150LGAAA	15,0	19/32	1,770	21,5	50	(164)	150	6	60,2	132,4

* = coefficient of friction µ:0,5

approx. 88° Shore A

- Recommended pretension 6 - 8 %
- Working tension approx. 17 aN/cm^2

Coefficient of friction µ

- Steel approx. 0,60
- PE approx. 0,30
- HDPE approx. 0,25

FDA/EC- conform

PU 85 A green smooth

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	inch	cm^2	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBRP85A020	2,0	5/64	0,032	0,5	200	(656)	15	0,6	1,2	2,6
FBRP85A030	3,0	1/8	0,071	0,9	200	(656)	25	1	2,6	5,8
FBRP85A040	4,0	5/32	0,126	1,6	200	(656)	35	1,4	4,6	10,1
FBRP85A048	4,8	3/16	0,181	2,2	200	(656)	45	1,8	6,6	14,5
FBRP85A050	5,0	1/5	0,197	2,4	100	(328)	50	2	7,0	15,4
FBRP85A060	6,0	7/32	0,283	3,4	100	(328)	60	2,4	10,2	22,4
FBRP85A063	6,3	1/4	0,310	3,8	100	(328)	65	2,6	11,2	24,6
FBRP85A070	7,0	9/32	0,385	4,7	100	(328)	70	2,8	13,8	30,4
FBRP85A080	8,0	5/16	0,500	6,0	100	(328)	80	3,2	18,0	39,6
FBRP85A095	9,5	3/8	0,710	8,5	100	(328)	95	3,8	25,4	55,9
FBRP85A100	10,0	7/16	0,785	9,4	50	(164)	100	4	28,0	61,6
FBRP85A120	12,0	15/32	1,130	13,5	50	(164)	120	4,8	40,0	88,0
FBRP85A125	12,5	1/2	1,230	14,8	50	(164)	125	5	44,0	96,8
FBRP85A15	15,0	19/32	1,770	21,5	50	(164)	150	6	63,6	139,9
FBRP85A18	18,0	3/4	2,54	31,0	50	(164)	180	7,2	91,0	200,2
FBRP85A20	20,0	25/32	3,14	40,0	50	(164)	220	8,8	113,0	248,6

* = coefficient of friction µ:0,5

approx. 88° Shore A

- Recommended pretension 6 - 8 %
- Working tension approx. 18 daN/cm^2

Coefficient of friction µ

- Steel approx. 0,60
- PE approx. 0,30
- HDPE approx. 0,25

Shore 88 A

PU 85 A green rough

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	inch	cm^2	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBRP85A020R	2,0	5/64	0,032	0,5	200	(656)	15	0,6	1,2	2,6
FBRP85A030R	3,0	1/8	0,071	0,9	200	(656)	25	1	2,6	5,7
FBRP85A040R	4,0	5/32	0,126	1,6	200	(656)	35	1,4	4,6	10,1
FBRP85A048R	4,8	3/16	0,181	2,2	200	(656)	45	1,8	6,6	14,5
FBRP85A050R	5,0	1/5	0,197	2,4	100	(328)	50	2	7,0	15,4
FBRP85A060R	6,0	7/32	0,283	3,4	100	(328)	60	2,4	10,2	22,4
FBRP85A063R	6,3	1/4	0,310	3,8	100	(328)	65	2,6	11,2	24,6
FBRP85A070R	7,0	9/32	0,385	4,7	100	(328)	70	2,8	13,8	30,4
FBRP85A080R	8,0	5/16	0,500	6,0	100	(328)	80	3,2	18,0	39,6
FBRP85A095R	9,5	3/8	0,710	8,5	100	(328)	95	3,8	25,4	55,9
FBRP85A100R	10,0	7/16	0,785	9,4	50	(164)	100	4	28,0	61,6
FBRP85A120R	12,0	15/32	1,130	13,5	50	(164)	120	4,8	40,0	88,0
FBRP85A125R	12,5	1/2	1,230	14,8	50	(164)	125	5	44,0	96,8
FBRP85A15R	15,0	19/32	1,770	21,5	50	(164)	150	6	63,6	139,9
FBRP85A18R	18,0	3/4	2,54	31,0	50	(164)	180	7,2	91,0	200,0
FBRP85A20R	20,0	25/32	3,14	40,0	50	(164)	220	8,8	113,0	248,6

* = coefficient of friction μ:0,5

approx. 88° Shore A

- Recommended pretension 6 - 8 %
- Working tension approx. 18 daN/cm^2

Coefficient of friction μ

• Steel	approx. 0,45
• PE	approx. 0,30
• HDPE	approx. 0,25

antistatic

PU 85 A emerald green smooth, antistatic dissipative

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	inch	cm^2	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBRK020GGAAA	2,0	5/64	0,032	0,5	200	(656)	15	0,6	1,2	2,6
FBRK030GGAAA	3,0	1/8	0,071	0,9	200	(656)	25	1	2,6	5,7
FBRK040GGAAA	4,0	5/32	0,126	1,6	200	(656)	35	1,4	4,6	10,1
FBRK048GGAAA	4,8	3/16	0,181	2,2	200	(656)	45	1,8	6,6	14,5
FBRK050GGAAA	5,0	1/5	0,197	2,4	100	(328)	50	2	7,0	15,4
FBRK060GGAAA	6,0	7/32	0,283	3,4	100	(328)	60	2,4	10,2	22,4
FBRK063GGAAA	6,3	1/4	0,310	3,8	100	(328)	65	2,6	11,2	24,6
FBRK070GGAAA	7,0	9/32	0,385	4,7	100	(328)	70	2,8	13,8	30,4
FBRK080GGAAA	8,0	5/16	0,500	6,0	100	(328)	80	3,2	18,0	39,6
FBRK095GGAAA	9,5	3/8	0,710	8,5	100	(328)	95	3,8	25,4	55,9
FBRK100GGAAA	10,0	7/16	0,785	9,4	50	(164)	100	4	28,0	61,6
FBRK120GGAAA	12,0	15/32	1,130	13,5	50	(164)	120	4,8	40,0	88,0
FBRK125GGAAA	12,5	1/2	1,230	14,8	50	(164)	125	5	44,0	96,8
FBRK150GGAAA	15,0	19/32	1,770	21,5	50	(164)	150	6	63,6	139,9

* = coefficient of friction μ:0,5

With this belt, electrostatic charging is discharged. Time of discharge < 1 second

approx. 88° Shore A

- Recommended pretension 6 - 8 %
- Working tension approx. 18 daN/cm^2

Conductivity approx. 10^9 Ω per cm

Coefficient of friction μ

• Steel	approx. 0,60
• PE	approx. 0,30
• HDPE	approx. 0,25

Belts for electrostatic discharge

Conductive version on request

PATENT
LOW ELONGATION

PU 85 A PLUS blue rough

approx. 88° Shore A

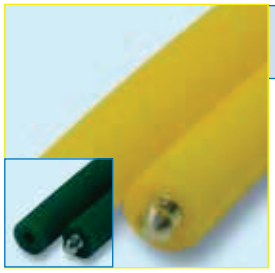
- Recommended pretension 4 - 6 %
- Working tension approx. 22 daN/cm²

Coefficient of friction µ

- Steel approx. 0,45
- PE approx. 0,30
- HDPE approx. 0,25

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	inch	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBRK020LR	2,0	5/64	0,032	0,5	200	(656)	15	0,6	1,4	3,1
FBRK030LR	3,0	1/8	0,071	0,9	200	(656)	25	1	3,2	7,0
FBRK040LR	4,0	5/32	0,126	1,6	200	(656)	35	1,4	5,6	12,3
FBRK048LR	4,8	3/16	0,181	2,2	200	(656)	45	1,8	8,0	17,6
FBRK050LR	5,0	1/5	0,197	2,4	100	(328)	50	2	8,6	18,9
FBRK060LR	6,0	7/32	0,283	3,4	100	(328)	60	2,4	12,4	27,3
FBRK063LR	6,3	1/4	0,310	3,8	100	(328)	65	2,6	13,6	29,9
FBRK070LR	7,0	9/32	0,385	4,7	100	(328)	70	2,8	17,0	37,4
FBRK080LR	8,0	5/16	0,500	6,0	100	(328)	80	3,2	22,0	48,4
FBRK095LR	9,5	3/8	0,710	8,5	100	(328)	95	3,8	31,2	38,6
FBRK100LR	10,0	7/16	0,785	9,4	50	(164)	100	4	34,6	76,1

* = coefficient of friction µ:0,5



PU 85 A yellow smooth/green rough hollow round belt

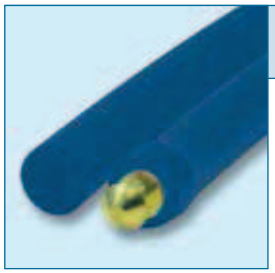
approx. 88° Shore A

- Recommended pretension: welded 6 - 8 %, Fitting connector max. 4 - 6 %
- Working tension approx. 18 daN/cm²

Order No.	GELB	GRÜN	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
			Außen	inch	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBHP85A048	GE	R	4,8	1,8	0,147	1,8	200	(656)	35	1,4	5,2	11,4
FBHP85A063	GE	R	6,3	2,5	0,261	3,2	100	(328)	55	2,2	9,2	20,2
FBHP85A080	GE	R	8,0	3,2	0,420	5,1	100	(328)	65	2,6	15,0	33,0
FBHP85A095	GE	R	9,5	3,8	0,600	7,2	100	(328)	75	3,0	20,0	44,0
FBHP85A125	GE	R	12,5	5,2	1,020	12,4	50	(164)	100	3,9	36,0	79,2
FBHP85A150	GE	R	15,0	5,2	1,560	19,0	50	(164)	120	4,7	56,0	123,2

Coefficient of friction µ (rau): Steel: approx. 0,45 | PE: approx. 0,30 | HDPE: approx. 0,25 * = coefficient of friction µ:0,5

Coefficient of friction µ (smooth): Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25



Food FDA / EC compliant

PU 85 A sapphire blue smooth hollow round belt

approx. 88° Shore A

- Recommended pretension: welded 6 - 8 %, Fitting connector max. 4 - 6 %
- Working tension approx. 17 daN/cm²

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	Außen	inch	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBHK048LG	4,8	1,8	0,147	1,8	200	(656)	35	1,4	5,0	11,0
FBHK063LG	6,3	2,5	0,261	3,2	100	(328)	55	2,2	8,9	19,6
FBHK080LG	8,0	3,2	0,420	5,1	100	(328)	65	2,6	14,3	31,5
FBHK095LG	9,5	3,8	0,600	7,2	100	(328)	75	3,0	20,4	44,9
FBHK125LG	12,5	5,2	1,020	12,4	50	(164)	100	3,9	34,7	76,3
FBHK150LG	15,0	5,2	1,560	19,0	50	(164)	120	4,7	53,0	116,6

* = coefficient of friction µ:0,5

Coefficient of friction µ: Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25 | **FDA/EC- conform**

For suitable fitting connectors and infos how to use them please refer to page 85 and 93

Shore 88 A

PU 85 A sapphire blue smooth, reinforced polyester

Food FDA / EC compliant

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommend. Min. pulley ∅		Fmax/belt (standard)*		Fmax/belt (overlap)	
	mm	inch	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs	daN	lbs
FBRK060LGAAC	6,0	7/32	0,283	3,4	100	(328)	60	2,4	9,6	21,1	28,8	63,4
FBRK063LGA	6,3	1/4	0,310	3,8	100	(328)	65	2,6	10,6	23,3	31,8	70,0
FBRK070LGA	7,0	9/32	0,385	4,7	100	(328)	70	2,8	13,0	28,6	39,0	85,8
FBRK080LGA	8,0	5/16	0,500	6,0	100	(328)	80	3,2	17,0	37,4	51,0	112,2
FBRK095LGA	9,5	3/8	0,710	8,5	100	(328)	95	3,7	24,2	53,2	72,6	159,7
FBRK100LGA	10,0	7/16	0,785	9,4	50	(164)	100	3,9	26,6	58,5	79,8	175,6
FBRK120LGA	12,0	15/32	1,130	13,5	50	(164)	120	4,7	38,4	84,5	115,2	253,4
FBRK125LGA	12,5	1/2	1,230	14,8	50	(164)	125	4,9	41,8	92,0	125,4	275,9
FBRK150LGA	15,0	19/32	1,770	21,5	50	(164)	150	5,9	60,2	132,4	180,6	397,3

* = coefficient of friction μ:0,5

Coefficient of friction μ: Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25 | **FDA/EC- conform**

approx. 88° Shore A

- Recommended pretension 0,5 - 2 %
- Working tension approx. 17 daN/cm²

PATENT WELDABLE reinforcement

PU 85 A ultramarine blue smooth, reinforced glass fiber

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	inch	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBZRP85A080	8,0	5/16	0,500	6,0	100	(328)	85	3,4	26,0	57,2
FBZRP85A095	9,5	3/8	0,71	8,5	100	(328)	100	4,0	37,0	81,4
FBZRP85A100	10,0	7/16	0,785	9,4	50	(164)	105	4,2	40,8	89,8
FBZRP85A120	12,0	15/32	1,130	13,5	50	(164)	125	5,0	58,8	129,4
FBZRP85A125	12,5	1/2	1,23	14,8	50	(164)	130	5,2	64,0	140,8
FBZRP85A143	14,3	9/16	1,605	21,0	50	(164)	150	6,0	83,4	183,5
FBZRP85A150	15,0	19/32	1,77	21,5	50	(164)	155	6,2	92,0	202,4

Coefficient of friction μ: Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25 * = coefficient of friction μ:0,5

approx. 88° Shore A

- Recommended pretension 0,5 - 2 %
- Working tension approx. 26 daN/cm²

PATENT WELDABLE reinforcement

PU 85 A ultramarine blue rough, reinforced glass fiber PU

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	inch	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBZRP85A080R	8,0	5/16	0,500	6,0	100	(328)	85	3,2	26,0	57,2
FBZRP85A095R	9,5	3/8	0,710	8,5	100	(328)	100	3,7	37,0	81,4
FBZRP85A100R	10,0	7/16	0,785	9,4	50	(164)	105	3,9	40,8	89,8
FBZRP85A120R	12,0	15/32	1,130	13,5	50	(164)	125	4,7	58,8	129,4
FBZRP85A125R	12,5	1/2	1,230	14,8	50	(164)	130	4,9	64,0	140,8
FBZRP85A143R	14,3	9/16	1,605	21,0	50	(164)	150	5,7	83,4	183,5
FBZRP85A150R	15,0	19/32	1,770	21,5	50	(164)	155	5,9	92,0	202,4
FBZRP85A180R	18,0	3/4	2,54	31,0	50	(164)	195	7,5	-	-
FBZRP85A200R	20,0	25/32	3,14	40,0	50	(164)	205	7,9	-	-

Coefficient of friction μ: Steel: approx. 0,45 | PE: approx. 0,30 | HDPE: approx. 0,25 * = coefficient of friction μ:0,5

approx. 88° Shore A

- Recommended pretension 0,5 - 2 %
- Working tension approx. 26 daN/cm²

PU 85 A green rough, reinforced aramid

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommend. Min.pulley ∅		Fmax/belt (standard)*		Fmax/belt (overlap)	
	mm	inch	cm^2	kg/100 m	m	(ft)	mm	inch	daN	lbs	daN	lbs
FBZR85A050RA	5,0	1/5	0,197	2,4	100	(328)	55	2,2	7,0	15,4	-	-
FBZR85A060RA	6,0	7/32	0,283	3,4	100	(328)	60	2,3	10,2	22,4	30,6	67,3
FBZR85A063RA	6,3	1/4	0,310	3,8	100	(328)	65	2,5	11,2	24,6	33,6	73,9
FBZR85A070RA	7,0	9/32	0,385	4,7	100	(328)	70	2,8	13,8	30,4	41,4	91,1
FBZR85A080RA	8,0	5/16	0,500	6,0	100	(328)	80	3,2	18,0	39,6	54,0	118,8
FBZR85A095RA	9,5	3/8	0,710	8,5	100	(328)	95	3,7	25,4	55,9	76,2	167,6
FBZR85A100RA	10,0	7/16	0,785	9,4	50	(164)	100	3,9	28,0	61,6	84,0	184,8
FBZR85A120RA	12,0	15/32	1,130	13,5	50	(164)	120	4,7	40,0	88,0	120,0	264,0
FBZR85A127RA	12,5	1/2	1,230	14,8	50	(164)	125	4,9	44,0	96,8	132,0	290,4
FBZR85A143RA	14,3	9/16	1,616	19,3	50	(164)	145	5,7	57,8	127,2	173,4	381,5
FBZR85A150RA	15,0	19/32	1,77	21,5	50	(164)	150	5,9	63,6	139,9	190,8	419,8
FBZR85A180RA	18,0	3/4	2,54	31,0	50	(164)	190	7,5	91,0	200,2	273,0	600,6
FBZR85A200RA	20,0	25/32	3,14	40,0	50	(164)	200	7,9	113,0	248,6	339,0	745,8

approx. 88° Shore A

- Recommended pretension 0,5 - 2 %
- Working tension approx. 18 daN/cm^2

Coefficient of friction µ: Steel: approx. 0,45 | PE: approx. 0,30 | HDPE: approx. 0,25

* = coefficient of friction µ:0,5

PU 85 A black smooth, reinforced aramid

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommend. Min.pulley ∅		Fmax/belt (standard)*		Fmax/belt (overlap)	
	mm	inch	cm^2	kg/100 m	ft	(m)	mm	inch	daN	lbs	daN	lbs
FBZR85A095SA	9,5	3/8	0,710	8,5	600	(182,88)	95	3,7	24,4	55,9	76,2	167,6

* = coefficient of friction µ:0,5

approx. 88° Shore A

- Recommended pretension 0,5 - 2 %
- Working tension approx. 18 daN/cm^2

Coefficient of friction µ: Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25

PU 85 A sky blue, reinforced aramid

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommend. Min.pulley ∅		Fmax/belt (standard)*		Fmax/belt (overlap)	
	mm	inch	cm^2	kg/100 m	ft	(m)	mm	inch	daN	lbs	daN	lbs
FBZR85A095HA	9,5	3/8	0,710	8,5	600	(182,88)	95	3,7	24,4	55,9	76,2	167,6

* = coefficient of friction µ:0,5

approx. 88° Shore A

- Recommended pretension 0,5 - 2 %
- Working tension approx. 18 daN/cm^2

Coefficient of friction µ: Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25

Shore 92 A

PU 90 A white smooth

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	inch	cm^2	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBRP90A020	2,0	5/64	0,032	0,5	200	(656)	20	0,8	1,6	3,5
FBRP90A030	3,0	1/8	0,071	0,9	200	(656)	30	1,2	3,6	7,9
FBRP90A040	4,0	5/32	0,126	1,6	200	(656)	40	1,6	6,2	31,0
FBRP90A048	4,8	3/16	0,181	2,2	200	(656)	50	2	9,0	19,8
FBRP90A050	5,0	1/5	0,197	2,4	100	(328)	55	2,2	9,8	21,6
FBRP90A060	6,0	7/32	0,283	3,4	100	(328)	65	2,6	14,0	89,2
FBRP90A063	6,3	1/4	0,310	3,8	100	(328)	70	2,8	15,4	33,9
FBRP90A070	7,0	9/32	0,385	4,7	100	(328)	75	3	19,2	42,2
FBRP90A080	8,0	5/16	0,500	6,0	100	(328)	85	3,4	25,0	55,0
FBRP90A095	9,5	3/8	0,710	8,5	100	(328)	95	3,8	35,0	77,0
FBRP90A100	10,0	7/16	0,785	9,4	50	(164)	105	4,2	39,2	86,2
FBRP90A120	12,0	15/32	1,130	13,5	50	(164)	120	4,8	56,0	123,2
FBRP90A125	12,5	1/2	1,23	14,8	50	(164)	125	5	61,0	134,2
FBRP90A15	15,0	19/32	1,770	21,5	50	(164)	150	6	88,0	193,6
FBRP90A18	18,0	3/4	2,54	31,0	50	(164)	185	7,4	126,0	277,2
FBRP90A20	20,0	25/32	3,14	40,0	50	(164)	200	8	156,0	343,2

* = coefficient of friction µ:0,5

approx. 92° Shore A

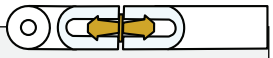
- Recommended pretension 4 - 6 %
- Working tension approx. 25 daN/cm^2

Coefficient of friction µ

- Steel approx. 0,50
- PE approx. 0,30
- HDPE approx. 0,25

Red on request

PU 90 A white smooth hollow round belt



Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	Außen	inch	cm^2	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBHP90A048	4,8	1,8	0,147	1,8	200	(656)	45	1,8	7,2	15,8
FBHP90A063	6,3	2,5	0,261	3,2	100	(328)	60	2,4	13,0	28,6
FBHP90A080	8,0	3,2	0,420	5,1	100	(328)	75	3,0	20,0	44,0
FBHP90A095	9,5	3,8	0,600	7,2	100	(328)	85	3,4	30,0	66,0
FBHP90A125	12,5	5,2	1,020	12,4	50	(164)	115	4,5	50,0	110,0
FBHP90A150	15,0	5,2	1,560	19,0	50	(164)	140	5,5	76,0	167,2

* = coefficient of friction µ:0,5

approx. 92° Shore A

- Recommended pretension :
verschweißt 4 - 6 %
Nippelverbinder max. 2 - 4 %
- Working tension approx. 25 daN/cm^2

Coefficient of friction µ: Steel: approx. 0,50 | PE: approx. 0,30 | HDPE: approx. 0,25

For suitable fitting connectors and infos how to use them please refer to page 85 and 93

Shore 92 A

PU 90 A white smooth, reinforced polyester

approx. 92° Shore A

- Recommended pretension 0,5 - 2 %
- Working tension approx. 25 daN/cm²

Coefficient of friction µ

- Steel approx. 0,50
- PE approx. 0,30
- HDPE approx. 0,25

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommend. Min. pulley ∅		Fmax/belt (standard)*		Fmax/belt (overlap)	
	mm	inch	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs	daN	lbs
FBZRP90A060P	6,0	7/32	0,283	3,4	100	(328)	70	2,8	14,0	30,8	30,0	66,0
FBZRP90A063P	6,3	1/4	0,310	3,8	100	(328)	75	3	15,4	33,9	35,0	77,0
FBZRP90A070P	7,0	9/32	0,385	4,7	100	(328)	80	3,2	19,2	42,2	50,0	110,0
FBZRP90A080P	8,0	5/16	0,500	6,0	100	(328)	90	3,6	25,0	55,0	65,0	143,0
FBZRP90A095P	9,5	3/8	0,710	8,5	100	(328)	105	4,2	35,0	77,0	75,0	165,0
FBZRP90A100P	10,0	7/16	0,785	9,4	50	(164)	110	4,4	39,2	86,2	80,0	176,0
FBZRP90A012P	12,0	15/32	1,130	13,5	50	(164)	125	5	56,0	123,2	135,0	297,0
FBZRP90A125P	12,5	1/2	1,230	14,8	50	(164)	130	5,2	61,0	134,2	145,0	319,0
FBZRP90A150P	15,0	19/32	1,770	21,5	50	(164)	155	6,2	88,0	193,6	230,0	506,0
FBZRP90A180P	18,0	3/4	2,54	31,0	50	(164)	190	7,6	126,0	277,2	300,0	660,0
FBZRP90A180P	20,0	25/32	3,14	40,0	50	(164)	210	8,4	-	-	-	-

* = coefficient of friction µ:0,5

Shore 98 A

PU 95 A red smooth, reinforced aramid

approx. 98° Shore A

- Recommended pretension 0,5 - 2 %
- Working tension approx. 33 daN/cm²

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommend. Min.pulley ∅		Fmax/belt (standard)*		Fmax/belt (overlap)	
	mm	inch	cm²	kg/100 m	ft	(m)	mm	inch	daN	lbs	daN	lbs
FBRN095RM	9,5	3/8	0,710	8,5	500	(152,4)	125	4,7	65,0	143,0	130,0	286,0

* = coefficient of friction µ:0,5

Coefficient of friction µ: Steel: approx. 0,35 | PE: approx. 0,15 | HDPE: approx. 0,10

Shore 40 D

Polyester TPE 40 D beige smooth

Food FDA / EC compliant

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	inch	cm^2	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBRKO40D020	2,0	5/64	0,032	0,5	200	(656)	20	0,8	2,2	4,8
FBRKO40D030	3,0	1/8	0,071	0,9	200	(656)	30	1,2	4,8	10,6
FBRKO40D040	4,0	5/32	0,126	1,6	200	(656)	40	1,6	8,8	19,4
FBRKO40D048	4,8	3/16	0,181	2,2	200	(656)	50	2	12,6	27,7
FBRKO40D050	5,0	1/5	0,197	2,4	100	(328)	55	2,2	13,6	29,9
FBRKO40D060	6,0	7/32	0,283	3,4	100	(328)	65	2,6	19,8	43,6
FBRKO40D063	6,3	1/4	0,310	3,8	100	(328)	70	2,8	21,8	48,0
FBRKO40D070	7,0	9/32	0,385	4,7	100	(328)	75	3	26,8	59,0
FBRKO40D080	8,0	5/16	0,500	6,0	100	(328)	85	3,4	35,0	77,0
FBRKO40D095	9,5	3/8	0,710	8,5	100	(328)	95	3,8	49,8	109,6
FBRKO40D100	10,0	7/16	0,785	9,4	50	(164)	105	4,2	54,8	120,6
FBRKO40D120	12,0	15/32	1,130	13,5	50	(164)	120	4,8	79,0	173,8
FBRKO40D125	12,5	1/2	1,230	14,8	50	(164)	125	5	86,0	189,2
FBRKO40D150	15,0	19/32	1,770	21,5	50	(164)	150	6	123,8	272,4
FBRKO40D180	18,0	3/4	2,54	31,0	50	(164)	185	7,4	176,0	387,2
FBRKO40D200	20,0	25/32	3,14	40,0	50	(164)	200	8	218,8	481,4

* = coefficient of friction µ:0,5

approx. 40° Shore D / 92° Shore A

- Recommended pretension 2 % - max. 4 %
- Working tension approx. 35 daN/cm^2

Coefficient of friction µ

- Steel approx. 0,50
- PE approx. 0,30
- HDPE approx. 0,25

FDA/EC-conform

Shore 55 D

Polyester TPE 55 D beige smooth

Food FDA / EC compliant

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	inch	cm^2	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBRH55D020B	2,0	5/64	0,032	0,5	200	(656)	30	1,2	3,0	6,6
FBRH55D030B	3,0	1/8	0,071	0,9	200	(656)	35	1,4	7,0	15,4
FBRH55D040B	4,0	5/32	0,126	1,6	200	(656)	50	2	12,4	27,3
FBRH55D048B	4,8	3/16	0,181	2,2	200	(656)	60	2,4	18,0	39,6
FBRH55D050B	5,0	1/5	0,197	2,4	100	(328)	65	2,6	19,6	43,1
FBRH55D060B	6,0	7/32	0,283	3,4	100	(328)	75	3	28,0	61,6
FBRH55D063B	6,3	1/4	0,310	3,8	100	(328)	80	3,2	31,0	68,2
FBRH55D070B	7,0	9/32	0,385	4,7	100	(328)	90	3,6	38,0	83,6
FBRH55D080B	8,0	5/16	0,500	6,0	100	(328)	100	4	50,0	110,0
FBRH55D095B	9,5	3/8	0,710	8,5	100	(328)	120	4,8	70,0	154,0
FBRH55D100B	10,0	7/16	0,785	9,4	50	(164)	125	5	78,6	172,9
FBRH55D120B	12,0	15/32	1,130	13,5	50	(164)	150	6	113,2	249,0
FBRH55D125B	12,5	1/2	1,230	14,8	50	(164)	160	6,4	122,0	268,4
FBRH55D150B	15,0	19/32	1,770	21,5	50	(164)	180	7,2	176,0	387,2
FBRH55D180B	18,0	3/4	2,54	31,0	50	(164)	240	9,6	254,0	558,8
FBRH55D200B	20,0	25/32	3,14	40,0	50	(164)	300	12	314,0	690,8

* = coefficient of friction µ:0,5

approx. 55° Shore D / 100° Shore A

- Recommended pretension 2 % - max. 4 %
- Working tension approx. 50 daN/cm^2

Coefficient of friction µ

- Steel approx. 0,35
- PE approx. 0,15
- HDPE approx. 0,10

FDA/EC-conform

Further colours on request

Shore 55 D

55° Shore D · approx. 100° Shore A

- Recommended pretension 0,5 - 2 %
- Working tension approx. 50 daN/cm²

Coefficient of friction μ

- Steel approx. 0,35
- PE approx. 0,15
- HDPE approx. 0,10

FDA/EC-conform

Polyester TPE 55 D beige smooth, reinforced polyester

Food FDA / EC compliant

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommend. Min. pulley ∅		Fmax/belt (standard)*		Fmax/belt (overlap)	
	mm	inch	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs	daN	lbs
FBZRH55D060B	6,0	7/32	0,283	3,4	100	(328)	75	3,0	28,0	61,6	60,0	132,0
FBZRH55D063B	6,3	1/4	0,310	3,8	100	(328)	80	3,2	31,0	68,2	65,0	143,0
FBZRH55D070B	7,0	9/32	0,385	4,7	100	(328)	90	3,5	38,0	83,6	80,0	176,0
FBZRH55D080B	8,0	5/16	0,500	6,0	100	(328)	100	3,9	50,0	110,0	95,0	209,0
FBZRH55D095B	9,5	3/8	0,771	8,5	100	(328)	120	4,7	70,0	154,0	120,0	264,0
FBZRH55D100B	10,0	7/16	0,785	9,4	50	(164)	125	4,9	78,6	172,9	130,0	286,0
FBZRH55D120B	12,0	15/32	1,130	13,5	50	(164)	150	5,9	113,2	249,0	170,0	374,0
FBZRH55D125B	12,5	1/2	1,230	14,8	50	(164)	160	6,3	122,0	268,4	180,0	396,0
FBZRH55D150B	15,0	19/32	1,770	21,5	50	(164)	180	7,1	176,0	387,2	275,0	605,0
FBZRH55D180B	18,0	3/4	2,54	31,0	50	(164)	240	9,5	254,0	558,8	325,0	715,0
FBZRH55D200B	20,0	25/32	3,14	40,0	50	(164)	300	11,8	-	-	-	-

* = coefficient of friction μ:0,5

Polyester TPE 40 D beige smooth reinforced on request

55° Shore D · approx. 100° Shore A

- Recommended pretension max.0,5 %
- Working tension approx. 50 daN/cm²

Polyester TPE 55 D beige smooth, reinforced steel

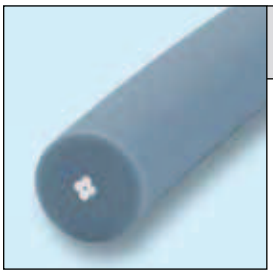
Food FDA / EC compliant

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)* ★	
	mm	inch	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBRS095BGB	9,5	3/8	0,710	8,5	500	(164)	380	15,0	130	286
FBRS100BGB	10,0	7/16	0,785	9,4	500	(164)	380	15,0	130	286
FBRS120BGB	12,0	15/32	1,082	13,0	500	(164)	380	15,0	130	286
FBRS125BGB	12,5	1/2	1,230	14,8	500	(164)	380	15,0	130	286

* = coefficient of friction μ:0,5

Coefficient of friction μ: Steel: approx. 0,35 | PE: approx. 0,15 | HDPE: approx. 0,10 | **FDA/EC- conform**

★ For joining system with crimps please refer to page 83



63° Shore D ·
approx. >100° Shore A

• Recommended pretension
0,5 - 2 %

Polyester TPE 63 D silver smooth, reinforced polyester

Food FDA / EC compliant

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommend. Min. pulley ∅		Fmax/belt (standard)*		Fmax/belt (overlap)	
	mm	inch	cm^2	kg/100 m	ft	(m)	mm	inch	daN	lbs	daN	lbs
FBRT063IGA	6,3	1/4	0,310	3,8	500	(152,4)	100	3,9	34,1	75,0	68,0	149,6
FBRT095IGA	9,5	3/8	0,710	8,5	500	(152,4)	150	5,9	78,1	171,8	140,0	308,0
FBRT125IGA	12,5	1/2	1,230	14,8	500	(152,4)	200	7,8	135,3	337,3	200,0	440,0

* = coefficient of friction μ:0,5

• Working tension approx. 55 daN/cm^2

Coefficient of friction μ: Steel: approx. 0,30 | PE: approx. 0,15 | HDPE: approx. 0,10 | **FDA/EC- conform**

63° Shore D ·
approx. >100° Shore A

• Recommended pretension
0,5 - 2 %

Polyester TPE 63 D beige smooth, reinforced polyester

Food FDA / EC compliant

Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommend. Min. pulley ∅		Fmax/belt (standard)*		Fmax/belt (overlap)	
	mm	inch	cm^2	kg/100 m	ft	(m)	mm	inch	daN	lbs	daN	lbs
FBRT063NGA	6,3	1/4	0,310	3,8	500	(152,4)	100	3,9	34,1	75,0	68,0	149,6
FBRT095NGB	9,5	3/8	0,710	8,5	350	(106,68)	150	5,9	78,1	171,8	140,0	308,0
FBRT095NGA	9,5	3/8	0,710	8,5	500	(152,4)	150	5,9	78,1	171,8	140,0	308,0
FBRT125NGA	12,5	1/2	1,230	14,8	500	(152,4)	200	7,8	135,3	337,3	200,0	440,0

* = coefficient of friction μ:0,5

• Working tension approx. 55 daN/cm^2

Coefficient of friction μ: Steel: approx. 0,30 | PE: approx. 0,15 | HDPE: approx. 0,10 | **FDA/EC- conform**

63° Shore D ·
approx. >100° Shore A

• Recommended pretension
0,5 - 2 %

Polyester TPE 63 D beige smooth, reinforced aramid

Food FDA / EC compliant

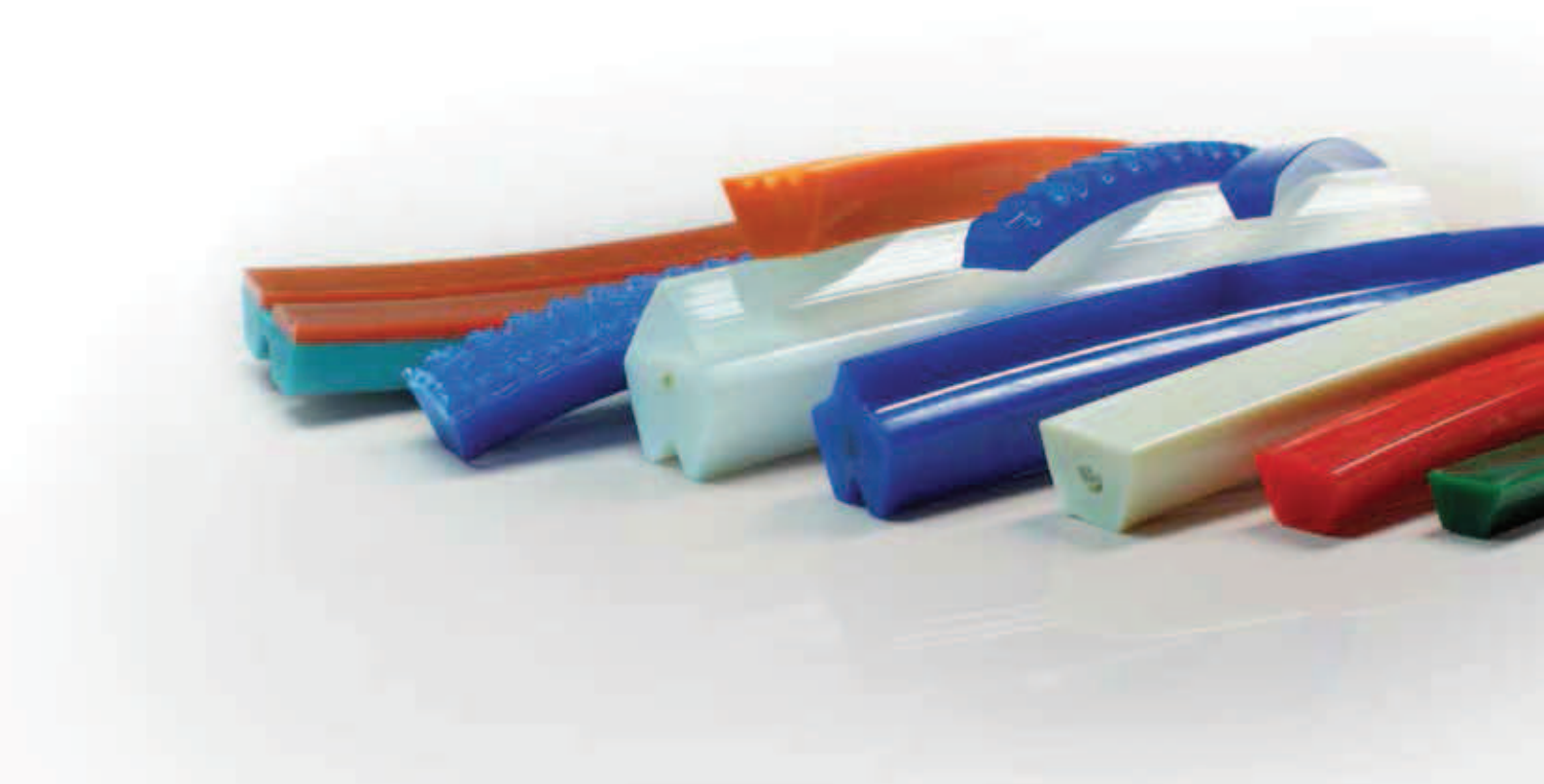
Order No.	Diameter ∅		Cross section	approx. Weight	Standard Roll		Recommend. Min. pulley ∅		Fmax/belt (standard)*		Fmax/belt (overlap)	
	mm	inch	cm^2	kg/100 m	ft	(m)	mm	inch	daN	lbs	daN	lbs
FBRT063NGC	6,3	1/4	0,310	3,8	500	(152,4)	100	3,9	34,1	75,0	68,0	149,6
FBRT095NGC	9,5	3/8	0,710	8,5	500	(152,4)	150	5,9	78,1	171,8	160,0	352,0
FBRT125NGC	12,5	1/2	1,230	14,8	500	(152,4)	200	7,8	135,3	337,3	240,0	528,0

* = coefficient of friction μ:0,5

• Zugspannung approx. 55 daN/cm^2

Coefficient of friction μ: Steel: approx. 0,30 | PE: approx. 0,15 | HDPE: approx. 0,10 | **FDA/EC- conform**

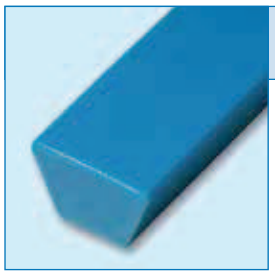
BEHAbelt
Made in Germany



Shore 80 A

PU 75 A sky blue smooth

Food FDA / EC compliant



approx. 80° Shore A

- Recommended pretension 6 - 8 %
- Working tension approx. 12 daN/cm²

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBKI6YLGA	6 x 4 (Y)	0,19	2,3	100	(328)	35	1,4	4,6	10,1
FBKI8MLGA	8 x 5 (M)	0,32	4,0	100	(328)	40	1,6	7,6	15,8
FBKI10ZLGA	10 x 6 (Z)	0,48	6,0	50	(164)	50	2,0	11,6	25,5
FBKI13ALGA	13 x 8 (A)	0,82	10,0	50	(164)	80	3,2	19,6	43,1
FBKI17BLGA	17 x 11 (B)	1,46	18,0	50	(164)	100	3,9	35,0	77,0

Coefficient of friction μ: Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35 | **FDA/EC-conform** * = coefficient of friction μ:0,5

PU 75 A red smooth

approx. 80° Shore A

- Recommended pretension 6 - 8 %
- Working tension approx. 13 daN/cm²

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBKP75A06	6 x 4 (Y)	0,19	2,3	100	(328)	35	1,4	5,0	11,0
FBKP75A08	8 x 5 (M)	0,32	4,0	100	(328)	40	1,6	8,4	18,5
FBKP75A10	10 x 6 (Z)	0,48	6,0	50	(164)	50	2,0	12,4	27,3
FBKP75A13	13 x 8 (A)	0,82	10,0	50	(164)	80	3,2	21,0	46,2
FBKP75A17	17 x 11 (B)	1,46	18,0	50	(164)	100	3,9	38,0	83,6
FBKP75A22	22 x 14 (C)	2,40	29,0	50	(164)	145	5,7	62,0	136,4
FBKP75A32	32 x 20 (D)	5,00	62,0	25	(82)	210	8,3	130,0	286,0

Coefficient of friction μ: Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35 * = coefficient of friction μ:0,5

PATENT WELDABLE reinforcement

PU 75 A orange, reinforced glass fiber

approx. 80° Shore A

- Recommended pretension 1 - 2 %

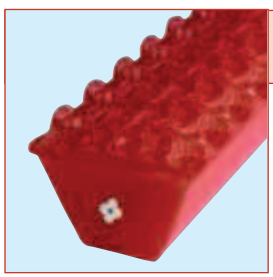
Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBZKP75A13GL	13 x 8 (A)	0,82	10,0	50	(164)	110	4,4	32,8	72,2
FBZKP75A17GL	17 x 11 (B)	1,46	18,0	50	(164)	140	5,5	58,4	128,5
FBZKP75A22GL	22 x 14 (C)	2,40	29,0	50	(164)	180	7,1	86,0	189,2

- Working tension approx. 20 daN/cm²

* = coefficient of friction μ:0,5

Coefficient of friction μ: Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35

2C PU 75 A / PU 60 A supergrip red/transp., reinforced polyester



approx. 80°/65° Shore A

- Recommended pretension 0,5 - 2 %

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBKI13ARTA	13 x 8 (A)	1,2	14,4	50	(164)	85	3,4	21,0	46,2
FBKI17BRTA	17 x 11 (B)	1,95	23,4	50	(164)	110	4,4	38,0	83,6

* = coefficient of friction μ:0,5

- Working tension approx. 13 daN/cm²

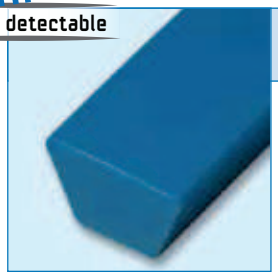
Coefficient of friction μ: Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35

Shore 84 A

SAFE
Metal detectable

PU 80 A SAFE capri blue smooth

Food FDA / EC compliant



approx. 84° Shore A

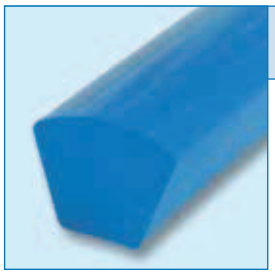
- Recommended pretension 6 - 8 %
- Working tension approx. 15 daN/cm²

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBKJ6YLGM	6 x 4 (Y)	0,19	2,3	100	(328)	40	1,6	5,8	12,8
FBKJ8MLGM	8 x 5 (M)	0,32	4,0	100	(328)	45	1,8	9,6	21,2
FBKJ10ZLGM	10 x 6 (Z)	0,48	6,0	50	(164)	55	2,2	14,4	31,6
FBKJ13ALGM	13 x 8 (A)	0,82	10,0	50	(164)	85	3,3	24,6	54,2
FBKJ17BLGM	17 x 11 (B)	1,46	18,0	50	(164)	110	4,3	43,8	96,4
FBKJ22CLGM	22 x 14 (C)	2,40	29,0	50	(164)	150	6,0	72,0	158,4

Coefficient of friction μ: Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | **FDA/EC-conform** * = coefficient of friction μ:0,5

PU 80 A sky blue with vaulted top

Food FDA / EC compliant



approx. 84° Shore A

- Recommended pretension 6 - 8 %

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBSP80A0865W	8 x 6,5 (M)	0,39	4,6	50	(164)	50	2,0	11,0	24,2

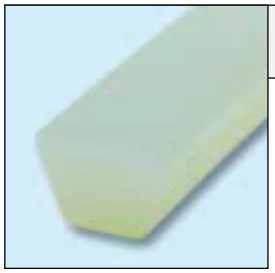
* = coefficient of friction μ:0,5

- Working tension approx. 14 daN/cm²

Coefficient of friction μ: Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | **FDA/EC-conform**

PU 80 A transparent smooth

Food FDA / EC compliant



approx. 84° Shore A

- Recommended pretension 6 - 8 %
- Working tension approx. 15 daN/cm²

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBKP80A06TR	6 x 4 (Y)	0,19	2,3	100	(328)	40	1,6	5,8	12,8
FBKP80A08TR	8 x 5 (M)	0,32	4,0	100	(328)	45	1,8	9,6	21,1
FBKP80A10TR	10 x 6 (Z)	0,48	6,0	50	(164)	55	2,2	14,4	31,7
FBKP80A13TR	13 x 8 (A)	0,82	10,0	50	(164)	85	3,3	24,6	54,1
FBKP80A17TR	17 x 11 (B)	1,46	18,0	50	(164)	110	4,3	43,8	96,4
FBKP80A22TR	22 x 14 (C)	2,40	290	50	(164)	150	5,9	72,0	158,4
FBKP80A32TR	32 x 20 (D)	5,00	62,0	25	(82)	220	8,7	150,0	330,0

Coefficient of friction μ: Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | **FDA/EC-conform** * = coefficient of friction μ:0,5

PU 80 A orange smooth

Food FDA / EC compliant

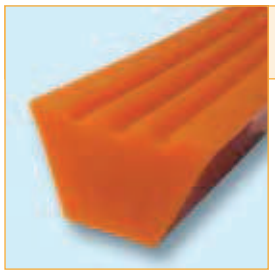
approx. 84° Shore A

- Recommended pretension 6 - 8 %
- Working tension approx. 15 daN/cm²

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm²	kg/100 m	ft	(m)	mm	inch	daN	lbs
FBJ6YOG	6 x 4 (Y)	0,19	2,3	100	(30,48)	40	1,6	5,8	12,8
FBJ8MOG	8 x 5 (M)	0,32	4,0	100	(30,48)	45	1,8	9,6	21,1
FBJ10ZOG	10 x 6 (Z)	0,48	6,0	100	(30,48)	55	2,2	14,4	31,7
FBJ13AOG	13 x 8 (A)	0,82	10,0	100	(30,48)	85	3,3	24,6	54,1
FBJ17BOG	17 x 11 (B)	1,46	18,0	100	(30,48)	110	4,3	43,8	96,4
FBJ22COG	22 x 14 (C)	2,40	29,0	100	(30,48)	150	5,9	72,0	158,4
FBJ32DOG	32 x 20 (D)	5,00	62,0	100	(30,48)	220	8,7	150,0	330,0

Coefficient of friction μ: Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | **FDA/EC-conform** * = coefficient of friction μ:0,5

Shore 84 A



PU 80 A orange ribbed

Food FDA / EC compliant

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm²	kg/100 m	ft	(m)	mm	inch	daN	lbs
FBSI17BOGR3	17 x 11 (B)	1,46	18,0	100	(30,48)	110	4,3	43,8	96,4
FBSI22COGR3	22 x 14 (C)	2,40	29,0	100	(30,48)	150	5,9	72,0	158,4

* = coefficient of friction μ:0,5

approx. 84° Shore A

- Recommended pretension 6 - 8 %
- Working tension approx. 15 daN/cm²

Coefficient of friction μ: Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | **FDA/EC-conform**

Further colours available on request

PU 80 A orange, reinforced polyester

Food FDA / EC compliant

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommend. Min.pulley ∅		Fmax/belt (standard)*		Fmax/belt (overlap)	
	mm	cm²	kg/100 m	ft	m	mm	inch	daN	lbs	daN	lbs
FBJ8MOGA	8 x 5 (M)	0,32	4,0	100	(30,48)	50	2,0	9,6	21,1	28,8	63,4
FBJ10ZOGA	10 x 6 (Z)	0,48	6,0	100	(30,48)	60	2,4	14,4	31,7	43,2	95,0
FBJ13AOGA	13 x 8 (A)	0,82	10,0	100	(30,48)	90	3,5	24,2	53,2	72,6	159,7
FBJ13AOGA001	13 x 8 (A)	0,82	10,0	(164)	50	90	3,5	24,2	53,2	72,6	159,7
FBJ17BOGA	17 x 11 (B)	1,46	18,0	100	(30,48)	120	4,7	43,8	96,4	131,4	289,1
FBJ17B0GC	17 x 11 (B)	1,46	18,0	(328)	100	120	4,7	43,8	96,4	131,4	289,1
FBJ22COGA	22 x 14 (C)	2,40	29,0	100	(30,48)	160	6,3	72,0	158,4	200,0	440,0

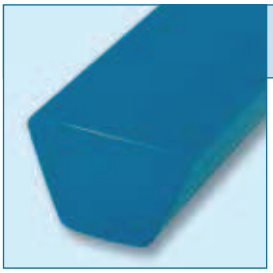
* = coefficient of friction μ:0,5

approx. 84° Shore D

- Recommended pretension 0,5 - 2 %
- Working tension approx. 15 daN/cm²

Coefficient of friction μ: Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | **FDA/EC-conform**

Shore 88 A



PU 85 A sapphire blue smooth

Food FDA / EC compliant

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBKK06MLGAAA	6 x 4 (Y)	0,19	2,3	100	(328)	45	1,8	6,4	14,1
FBKK08MLGAAA	8 x 5 (M)	0,32	4,0	100	(328)	50	2,0	10,8	23,8
FBKK10ZLGAAA	10 x 6 (Z)	0,48	6,0	50	(164)	65	2,6	16,4	36,1
FBKK13ALGAAA	13 x 8 (A)	0,82	10,0	50	(164)	95	3,8	27,8	61,2
FBKK17BLGAAA	17 x 11 (B)	1,46	18,0	50	(164)	120	4,7	49,6	109,1
FBKK22CLGAAA	22 x 14 (C)	2,40	29,0	50	(164)	160	6,3	81,6	179,5

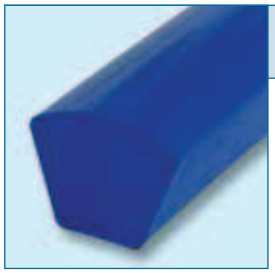
* = coefficient of friction μ:0,5

approx. 88° Shore A

- Recommended pretension 6 - 8 %
- Working tension approx. 17 daN/cm²

Coefficient of friction μ: Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25 | **FDA/EC-conform**

V-belts with reinforcement available on request



PU 85 A sapphire blue smooth with vaulted top

Food FDA / EC compliant

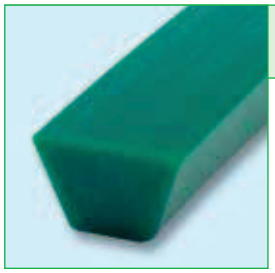
Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm^2	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBSP85A0865W	8 x 6,5 (M)	0,39	4,6	50	(164)	55	2,2	13,2	29,0

* = coefficient of friction µ:0,5

approx. 88° Shore A

- Recommended pretension 6 - 8 %
- Working tension approx. 17 daN/cm^2

Coefficient of friction µ: Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25 | **FDA/EC-conform**



PU 85 A green smooth

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm^2	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBKP85A06	6 x 4 (Y)	0,19	2,3	100	(328)	45	1,8	6,8	15,0
FBKP85A08	8 x 5 (M)	0,32	4,0	100	(328)	50	2,0	11,4	25,1
FBKP85A10	10 x 6 (Z)	0,48	6,0	50	(164)	65	2,6	17,2	37,8
FBKP85A13	13 x 8 (A)	0,82	10,0	50	(164)	95	3,8	29,4	64,7
FBKP85A17	17 x 11 (B)	1,46	18,0	50	(164)	120	4,7	52,0	114,4
FBKP85A22	22 x 14 (C)	2,40	29,0	50	(164)	160	6,3	86,0	189,2
FBKP85A32	32 x 20 (D)	5,00	62,0	25	(82)	230	9,1	192,0	422,4

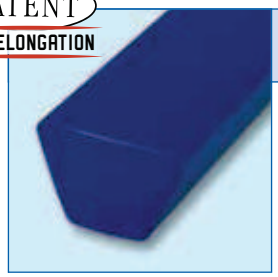
* = coefficient of friction µ:0,5

approx. 88° Shore A

- Recommended pretension 6 - 8 %
- Working tension approx. 18 daN/cm^2

Coefficient of friction µ: Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25

PATENT
LOW ELONGATION



PU 85 A PLUS blue matt finish

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm^2	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBKP85A06BP	6 x 4 (Y)	0,19	2,3	100	(328)	45	1,8	8,4	18,5
FBKP85A08BP	8 x 5 (M)	0,32	4,0	100	(328)	50	2,0	14,0	30,8
FBKP85A10BP	10 x 6 (Z)	0,48	6,0	50	(164)	65	2,6	21,2	46,6
FBKP85A13BP	13 x 8 (A)	0,82	10,0	50	(164)	95	3,8	36,0	79,2
FBKP85A17BP	17 x 11 (B)	1,46	18,0	50	(164)	120	4,7	64,2	141,2
FBKP85A22BP	22 x 14 (C)	2,40	29,0	50	(164)	160	6,3	105,6	232,3
FBKP85A32BP	32 x 20 (D)	5,00	62,0	25	(82)	230	9,1	220,0	484,0

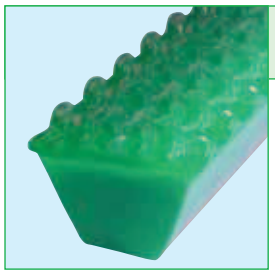
* = coefficient of friction µ:0,5

approx. 88° Shore A

- Recommended pretension 4 - 6 %
- Working tension approx. 22 daN/cm^2

Coefficient of friction µ: Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25

Shore 88 A



2C PU 85 A / PU 60 A supergrip green/transparent

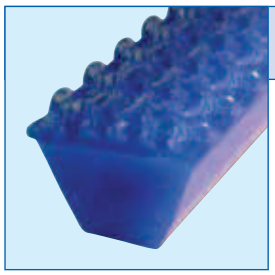
Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm^2	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBKK13AGTA	13 x 8 (A)	1,2	14,4	50	(164)	100	4,0	29,4	64,7
FBKK17BGTA	17 x 11 (B)	1,95	23,4	50	(164)	130	5,2	52,0	114,4

* = coefficient of friction μ:0,5

approx. 88°/65° Shore A

- Recommended pretension 6 - 8 %
- Working tension approx. 18 daN/cm^2

Coefficient of friction μ: Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25



2C PU 85 A PLUS / PU 60 A supergrip blue/transparent

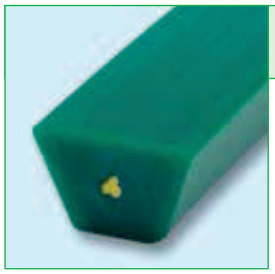
Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm^2	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBKK13ALTA	13 x 8 (A)	1,2	14,4	50	(164)	100	4,0	36,0	79,2
FBKK17BLTA	17 x 11 (B)	1,95	23,4	50	(164)	130	5,2	64,2	141,2

* = coefficient of friction μ:0,5

approx. 88°/65° Shore A

- Recommended pretension 4 - 6 %
- Working tension approx. 22 daN/cm^2

Coefficient of friction μ: Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25



PU 85 A green, reinforced aramid

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommend. Min. pulley ∅		Fmax/belt (standard)*		Fmax/belt (overlap)	
	mm	cm^2	kg/100 m	m	(ft)	mm	inch	daN	lbs	daN	lbs
FBZKP85A08A	8 x 5 (M)	0,32	4,0	100	(328)	60	2,4	11,4	25,1	34,2	75,2
FBZKP85A10A	10 x 6 (Z)	0,48	6,0	50	(164)	70	2,8	17,2	37,8	50,0	110,0
FBZKP85A13A	13 x 8 (A)	0,82	10,0	50	(164)	100	3,9	29,4	64,7	85,0	187,0
FBZKP85A17A	17 x 11 (B)	1,46	18,0	50	(164)	140	5,5	52,0	114,4	150,0	330,0
FBZKP85A22A	22 x 14 (C)	2,40	29,0	50	(164)	180	7,1	86,0	189,2	250,0	550,0

* = coefficient of friction μ:0,5

approx. 88° Shore A

- Recommended pretension 0,5 - 2 %
- Working tension approx. 18 daN/cm^2

Coefficient of friction μ: Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25

PATENT
WELDABLE
reinforcement

notched*

PU 85 A ultramarine blue, reinforced glass fiber PU

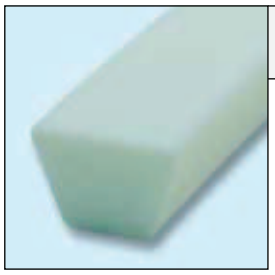
Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm^2	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBZKP85A13	13 x 8	0,82	10,0	50	(164)	140	5,5	42,6	93,7
FBZKP85A17 (*)	17 x 11	1,46	18,0	50	(164)	180	7,1	72,0	158,4
FBZKP85A22 (*)	22 x 14	2,40	29,0	50	(164)	220	8,7	120,0	264,0

* = coefficient of friction μ:0,5

approx. 88° Shore A

- Recommended pretension 0,5 - 2 %
- Working tension approx. 26 daN/cm^2

Coefficient of friction μ: Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25



PU 90 A white smooth

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBKP90A08	8 x 5 (M)	0,32	4,0	100	(328)	60	2,4	16,0	35,2
FBKP90A10	10 x 6 (Z)	0,48	6,0	50	(164)	80	3,2	24,0	52,8
FBKP90A13	13 x 8 (A)	0,82	10,0	50	(164)	105	4,2	40,0	88,0
FBKP90A17	17 x 11 (B)	1,46	18,0	50	(164)	140	5,5	72,0	158,4
FBKP90A22	22 x 14 (C)	2,40	29,0	50	(164)	200	7,9	120,0	264,0
FBKP90A32 (natur)	32 x 20 (D)	5,00	62,0	25	(82)	320	12,6	250,0	550,0

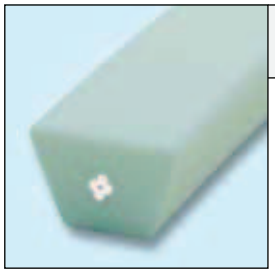
* = coefficient of friction μ:0,5

approx. 92° Shore A

- Recommended pretension 4 - 6 %
- Working tension approx. 25 daN/cm²

Coefficient of friction μ: Steel: approx. 0,50 | PE: approx. 0,30 | HDPE: approx. 0,25

Available cogged on request** Red on request



PU 90 A white, reinforced polyester

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommend. Min. pulley ∅		Fmax/belt (standard)*		Fmax/belt (overlap)	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs	daN	lbs
FBZKP90A08P	8 x 5	0,32	4,0	100	(328)	80	3,1	16,0	35,2	40,0	88,0
FBZKP90A10P	10 x 6	0,48	6,0	50	(164)	100	3,9	24,0	52,8	60,0	132,0
FBZKP90A13P	13 x 8	0,82	10,0	50	(164)	120	4,7	40,0	88,0	90,0	198,0
FBZKP90A17P	17 x 11	1,46	18,0	50	(164)	160	6,3	72,0	158,4	160,0	352,0
FBZKP90A22P	22 x 14	2,40	29,0	50	(164)	230	9,0	120,0	264,0	270,0	594,0

* = coefficient of friction μ:0,5

approx. 92° Shore A

- Recommended pretension 0,5 - 2 %
- Working tension approx. 25 daN/cm²

Coefficient of friction μ: Steel: approx. 0,50 | PE: approx. 0,30 | HDPE: approx. 0,25

PU 90 A white, reinforced polyester, with cogged bottom**

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBZKP90A13PV	13 x 8	0,82	10,0	50	(164)	90	3,5	34,0	74,8
FBZKP90A17PV	17 x 11	1,46	18,0	50	(164)	120	4,7	61,2	134,6
FBZKP90A22PV	22 x 14	2,40	29,0	50	(164)	175	7,0	102,0	224,4

* = coefficient of friction μ:0,5

approx. 92° Shore A

- Recommended pretension 0,5 - 2 %
- Working tension approx. 25 daN/cm²

Coefficient of friction μ: Steel: approx. 0,50 | PE: approx. 0,30 | HDPE: approx. 0,25

** The cogged bottom enables the belt to run over smaller pulleys (approx. 25% smaller) but also decreases the maximum working tension (approx. 15%). Cogged V-Belts can not be used as timing belts.

Shore 40 D

Polyester TPE 40 D beige smooth

Food FDA / EC compliant

40° Shore D ·
approx. 92° Shore A

- Recommended pretension 2 - 4 %
- Working tension approx. 35 daN/cm²

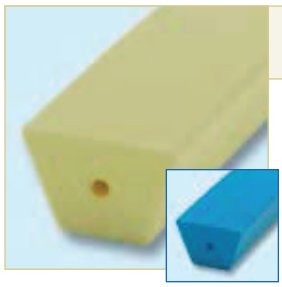
Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBKR08MBG	8 x 5 (M)	0,32	4,0	100	(328)	60	2,4	22,4	49,3
FBKR10ZBG	10 x 6 (Z)	0,48	6,0	50	(164)	80	3,2	33,6	73,9
FBKR13ABG	13 x 8 (A)	0,82	10,0	50	(164)	105	4,2	57,4	126,3
FBKR17BBG	17 x 11 (B)	1,46	18,0	50	(164)	140	5,5	102,0	224,4
FBKR22CBG	22 x 14 (C)	2,40	29,0	50	(164)	200	7,9	168,0	369,6

* = coefficient of friction μ:0,5

Coefficient of friction μ: Steel: approx. 0,50 | PE: approx. 0,30 | HDPE: approx. 0,25 | **FDA/EC-conform**

Available cogged on request**

Shore 55 D



Polyester TPE 55 D beige/blue smooth

Food FDA / EC compliant

55° Shore D ·
approx. 100° Shore A

- Recommended pretension 2 - 4 %
- Working tension approx. 50 daN/cm²

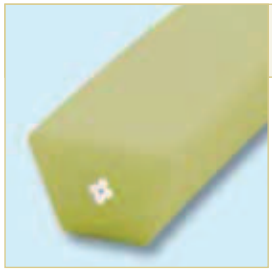
Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBKH55D08B (beige)	8 x 5 (M)	0,32	4,0	100	(328)	80	3,2	32,0	70,4
FBKH55D10B (beige)	10 x 6 (Z)	0,48	6,0	50	(164)	105	4,2	48,0	105,6
FBKH55D13B (beige)	13 x 8 (A)	0,82	10,0	50	(164)	125	5	80,0	176,0
FBKH55D17 (blue)	17 x 11 (B)	1,46	18,0	50	(164)	175	7	146,0	321,2
FBKH55D22B (beige)	22 x 14 (C)	2,40	29,0	50	(164)	235	9,4	240,0	528,0

* = coefficient of friction μ:0,5

Coefficient of friction μ: Steel: approx. 0,35 | PE: approx. 0,15 | HDPE: approx. 0,10 | **FDA/EC-conform**

** The cogged bottom enables the belt to run over smaller pulleys (approx. 25% smaller) but also decreases the maximum working tension (approx. 15%). Cogged V-Belts can not be used as timing belts.

Available cogged on request**



Polyester TPE 55 D beige, reinforced polyester

Food FDA / EC compliant

55° Shore D ·
approx. 100° Shore A

- Recommended pretension 0,5 - 2 %

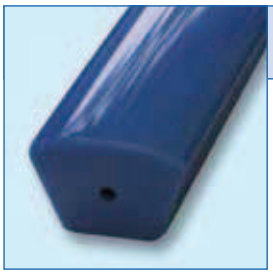
Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommend. Min. pulley ∅		Fmax/belt (standard)*		Fmax/belt (overlap)	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs	daN	lbs
FBKH55D10P	10 x 6	0,48	6,0	50	(164)	110	4,4	48,0	105,6	70,0	154,0
FBKH55D13P	13 x 8	0,82	10,0	50	(164)	130	5,2	80,0	176,0	110,0	242,0
FBKH55D17P	17 x 11	1,46	18,0	50	(164)	180	7,2	146,0	321,2	180,0	396,0
FBKH55D22P	22 x 14	2,40	29,0	50	(164)	250	10	240,0	528,0	300,0	660,0

- Working tension approx. 50 daN/cm²

* = coefficient of friction μ:0,5

Coefficient of friction μ: Steel: approx. 0,35 | PE: approx. 0,15 | HDPE: approx. 0,10 | **FDA/EC-conform**

Available cogged on request**



55° Shore D ·
approx. 100° Shore A

• Recommended pretension
2 - 4 %

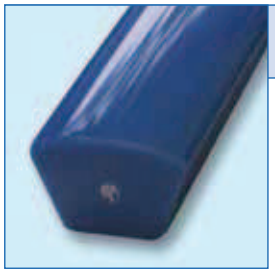
TPE 55 D bluepower smooth

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBKBLP17113W	17 x 11,3	1,49	18,0	50	(164)	175	7,0	149,0	327,8
FBKBLP1711W2	17 x 11,3	1,49	18,0	100	(328)	175	7,0	149,0	327,8

* = coefficient of friction μ:0,5

• Working tension approx. 50 daN/cm²

Coefficient of friction μ: Steel: approx. 0,35 | PE: approx. 0,15 | HDPE: approx. 0,10 | **FDA/EC-conform**



55° Shore D ·
approx. 100° Shore A

• Recommended pretension
0,5 - 2 %

TPE 55 D bluepower smooth, reinforced polyester

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommend. Min. pulley ∅		Fmax/belt (standard)*		Fmax/belt (overlap)	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs	daN	lbs
FBKBLP1711W3	17 x 11,3	1,49	18,0	100	(328)	180	7,1	149,0	327,8	200,0	440,0

* = coefficient of friction μ:0,5

• Working tension approx. 50 daN/cm²

Coefficient of friction μ: Steel: approx. 0,35 | PE: approx. 0,15 | HDPE: approx. 0,10 | **FDA/EC-conform**

55° Shore D ·
approx. 100° Shore A

• Recommended pretension
2 - 4 %

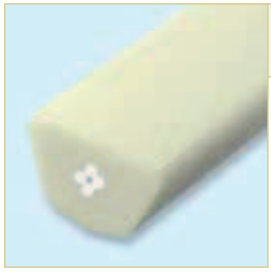
TPE 55 D beige smooth with chamfer

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBKH55D17115	17 x 11,4	1,45	18,0	100	(328)	175	7,0	145,0	319,0

* = coefficient of friction μ:0,5

• Working tension approx. 50 daN/cm²

Coefficient of friction μ: Steel: approx. 0,35 | PE: approx. 0,15 | HDPE: approx. 0,10 | **FDA/EC-conform**



55° Shore D ·
approx. 100° Shore A

• Recommended pretension
0,5 - 2 %

TPE 55 D beige smooth with chamfer, reinforced polyester

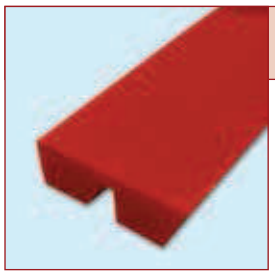
Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommend. Min. pulley ∅		Fmax/belt (standard)*		Fmax/belt (overlap)	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs	daN	lbs
FBKS17115BGA	17 x 11,4	1,45	18,0	100	(328)	180	7,1	145,0	319,0	200,0	440,0

* = coefficient of friction μ:0,5

• Working tension approx. 50 daN/cm²

Coefficient of friction μ: Steel: approx. 0,35 | PE: approx. 0,15 | HDPE: approx. 0,10 | **FDA/EC-conform**

Shore 80 A



approx. 80° Shore A

- Recommended pretension 4 - 6 %

PU 75 A red smooth

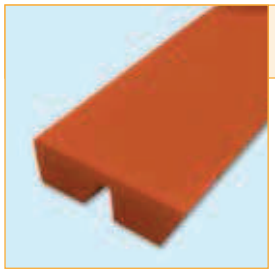
Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm^2	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBSP75A21X8	21 x 8	1,2	13,9	30	(98,4)	80	3,2	31,2	68,6

* = coefficient of friction μ:0,5

- Working tension approx. 13 daN/cm^2

Coefficient of friction μ: Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35

Shore 84 A



approx. 84° Shore A

- Recommended pretension 4 - 6 %

PU 80 A orange smooth

Food FDA / EC compliant

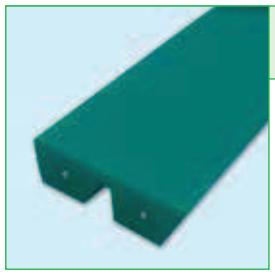
Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm^2	kg/100 m	ft	(m)	mm	inch	daN	lbs
FBSJ24X68OGB	24 x 6,8	1,2	14,9	100	(30,48)	60	2,4	36,0	79,2
FBSJ30X8OG	30 x 8	1,9	22,4	100	(30,48)	85	3,4	57,0	125,4

* = coefficient of friction μ:0,5

- Working tension approx. 15 daN/cm^2

Coefficient of friction μ: Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | **FDA/EC- conform**

Shore 88 A



approx. 88° Shore A

- Recommended pretension 0,5 - 2 %

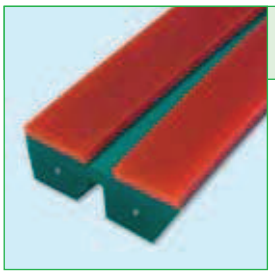
PU 85 A mint green, reinforced polyester

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommend. Min. pulley ∅		Fmax/belt (standard)*		Fmax/belt (overlap)	
	mm	cm^2	kg/100 m	ft	(m)	mm	inch	daN	lbs	daN	lbs
FBSK30X8GGA	30 x 8	1,9	22,4	100	(30,48)	100	3,9	68,4	150,5	136,8	301,0

* = coefficient of friction μ:0,5

- Working tension approx. 18 daN/cm^2

Coefficient of friction μ: Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25



approx. 88°/74° Shore A

- Recommended pretension 0,5 - 2 %

2C, PU 85 A / PU 70 A mint green/orange

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm^2	kg/100 m	ft	(m)	mm	inch	daN	lbs
FBSK30X8GGB	30 x 11	1,9	23,1	100	(30,48)	110	4,4	68,4	150,5

* = coefficient of friction μ:0,5

- Working tension approx. 18 daN/cm^2

Coefficient of friction μ: Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25

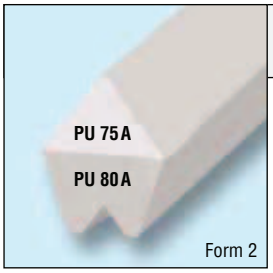
BEHAbelt Made in Germany

Shore 80/84 A

2 compound extrusion

Form 2 with notch

2C, PU 75 A / PU 80 A



Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBSP85A17K2	17 x 19	2,0	24,4	30	(98,4)	160	6,4	60,0	132,0
FBSP85A22K2	22 x 25	3,5	42,3	30	(98,4)	200	8,0	105,0	231,0

* = coefficient of friction μ:0,5

approx. 80/84° Shore A

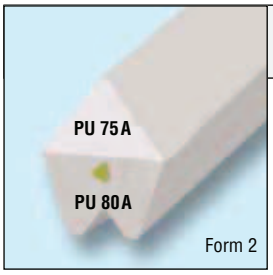
- Recommended pretension 4 - 6 %
- Working tension 15 daN/cm²

Coefficient of friction μ: Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30

2 compound extrusion

Form 2 with notch

2C, PU 75 A / PU 80 A reinforced aramid



Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBZSP85A17K2	17 x 19	2,0	24,4	30	(98,4)	170	6,8	60,0	132,0
FBZSP85A22K2	22 x 25	3,5	42,3	30	(98,4)	210	8,4	105,0	231,0

* = coefficient of friction μ:0,5

approx. 80/84° Shore A

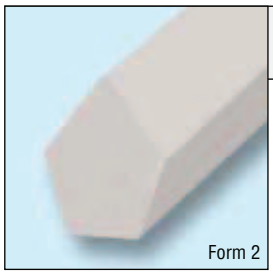
- Recommended pretension 0,5 - 2 %
- Working tension 15 daN/cm²

Coefficient of friction μ: Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30

Shore 84 A

Form 2 without notch

PU 80 A transparent



Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBBJ22X25TG0	22 x 25	3,65	43,8	30	(98,4)	210	8,4	109,6	241,1

* = coefficient of friction μ:0,5

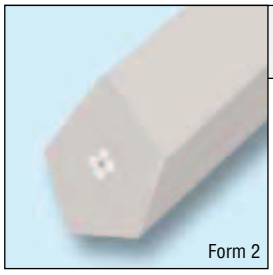
approx. 84° Shore A

- Recommended pretension 4 - 6 %
- Working tension 15 daN/cm²

Coefficient of friction μ: Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30

Form 2 without notch

PU 80 A transparent, reinforced polyester



Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBBJ22X25TGA	22 x 25	3,65	43,8	30	(98,4)	210	8,4	109,6	241,1

* = coefficient of friction μ:0,5

approx. 84° Shore A

- Recommended pretension 0,5 -2 %
- Working tension 15 daN/cm²

Coefficient of friction μ: Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30

Shore 88 A

Form 1 without notch

PU 85 A green

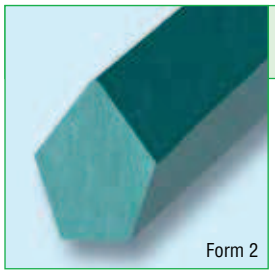
Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBSP85A17ON	17 x 19	1,95	23,6	30	(98,4)	180	7,2	70,2	154,4
FBSP85A22ON	22 x 25	3,26	39,1	30	(98,4)	220	8,8	117,4	258,2

approx. 88° Shore A **Coefficient of friction µ:** Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25

* = coefficient of friction µ:0,5

• Recommended pretension 4 - 6 % | • Working tension approx. 18 daN/cm²

Form 2 without notch



PU 85 A green

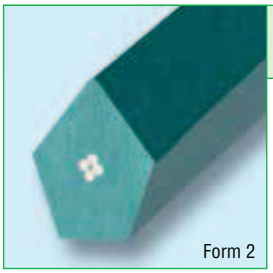
Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBAK17X19GG	17 x 19	2,13	25,6	30	(98,4)	190	7,6	76,7	168,7
FBAK22X25GG	22 x 25	3,65	43,8	30	(98,4)	240	9,6	131,4	289,1

approx. 88° Shore A **Coefficient of friction µ:** Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25

* = coefficient of friction µ:0,5

• Recommended pretension 4 - 6 % | • Working tension approx. 18 daN/cm²

Form 2 without notch



PU 85 A green, reinforced polyester

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBBK17X19GGA	17 x 19	2,13	25,6	30	(98,4)	190	7,6	76,7	168,7
FBBK22X25GGA	22 x 25	3,65	43,8	30	(98,4)	240	9,6	131,4	289,1

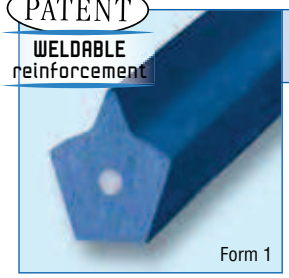
approx. 88° Shore A **Coefficient of friction µ:** Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25

* = coefficient of friction µ:0,5

• Recommended pretension 0,5 - 2 % | • Working tension approx. 18 daN/cm²

Form 1 without notch

PATENT WELDABLE reinforcement



PU 85 A blue, reinforced glass fiber

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBZSP85A17ON	17 x 19	1,95	23,63	30	(98,4)	240	9,6	101,4	223,1
FBZSP85A22ON	22 x 25	3,26	39,1	30	(98,4)	280	11,2	169,0	371,8

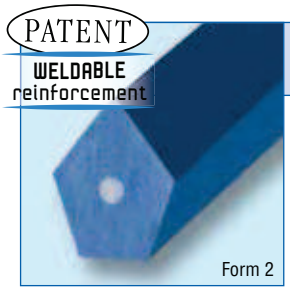
approx. 88° Shore A **Coefficient of friction µ:** Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25

* = coefficient of friction µ:0,5

• Recommended pretension 0,5 - 2 % | • Working tension approx. 26 daN/cm²

Form 2 without notch

PATENT WELDABLE reinforcement



PU 85 A blue, reinforced glass fiber

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBBK17X19LGA	17 x 19	2,13	25,6	30	(98,4)	260	10,4	110,8	243,7
FBBK22X25LGA	22 x 25	3,65	43,8	30	(98,4)	300	12	189,8	417,6

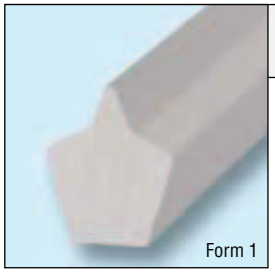
approx. 88° Shore A **Coefficient of friction µ:** Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25

* = coefficient of friction µ:0,5

• Recommended pretension 0,5 - 2 % | • Working tension approx. 26 daN/cm²

Shore 92 A

Form 1 without notch



PU 90 A white

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBSP90A170ON	17 x 19	1,95	23,6	30	(98,4)	200	8	97,5	214,5
FBSP90A220ON	22 x 25	3,26	39,1	30	(98,4)	250	10	163,0	358,6

* = coefficient of friction μ:0,5

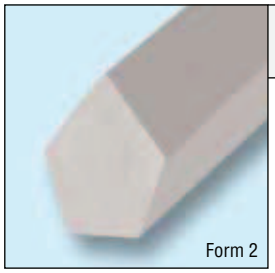
approx. 92° Shore A

- Recommended pretension 4 - 6 %

- Working tension approx. 25 daN/cm²

Coefficient of friction μ: Steel: approx. 0,50 | PE: approx. 0,30 | HDPE: approx. 0,25

Form 2 without notch



PU 90 A white

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBBL17X19WG	17 x 19	2,13	25,6	30	(98,4)	210	8,4	106,5	234,3
FBBL22X25WG	22 x 25	3,65	43,8	30	(98,4)	260	10,4	182,5	401,5

* = coefficient of friction μ:0,5

approx. 92° Shore A

- Recommended pretension 4 - 6 %

- Working tension approx. 25 daN/cm²

Coefficient of friction μ: Steel: approx. 0,50 | PE: approx. 0,30 | HDPE: approx. 0,25

Shore 40 D

Form 1 without notch

Food FDA / EC compliant

Polyester TPE 40 D beige

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBAR17X19BG	17 x 19	1,95	23,6	30	(98,4)	210	8,4	136.5	300.3
FBAR22X24BG	22 x 25	3,26	39,1	30	(98,4)	260	10,4	228.2	502.0

* = coefficient of friction μ:0,5

40° Shore D · approx. 92° Shore A

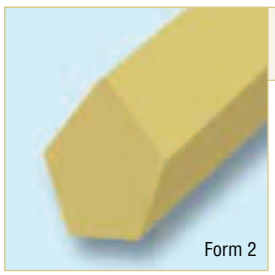
- Recommended pretension 2 - 4 %

- Working tension approx. 35 daN/cm²

Coefficient of friction μ: Steel: approx. 0,50 | PE: approx. 0,30 | HDPE: approx. 0,25 | **FDA/EC-conform**

Form 2 without notch

Food FDA / EC compliant



Polyester TPE 40 D beige

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBBR17X19BG	17 x 19	2,13	25,6	30	(98,4)	220	8.8	149.1	328.0
FBBR22X25BG	22 x 25	3,65	43,8	30	(98,4)	280	11,2	255.5	562.1

* = coefficient of friction μ:0,5

40° Shore D · approx. 92° Shore A

- Recommended pretension 2 - 4 %

- Working tension approx. 35 daN/cm²

Coefficient of friction μ: Steel: approx. 0,50 | PE: approx. 0,30 | HDPE: approx. 0,25 | **FDA/EC-conform**

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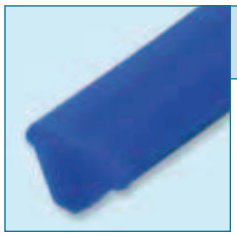
Shore 80 A



T-Profile PU 75 A sky blue (8 x 5 mm)

Food FDA / EC compliant

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm^2	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBSP75A8X5HI	8 x 5	0,25	3,1	50	(164)	40	1,6	6,0	13,2

* = coefficient of friction μ:0,5

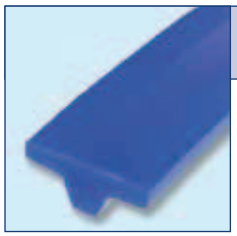
approx. 80° Shore A

- Recommended pretension 6 - 8 %

- Working tension approx. 12 daN/cm^2

Coefficient of friction μ: Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35 | **FDA/EC-conform**

Shore 84 A



T-Profile PU 80 A ultramarine blue smooth (10 x 4,5 mm)

Food FDA / EC compliant

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm^2	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBTI2X45X10L	10 x 4,5	0,27	3,3	50	(164)	50	2,0	7,6	16,6

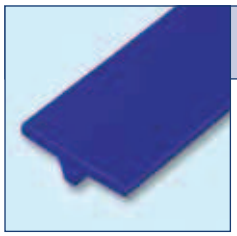
* = coefficient of friction μ:0,5

approx. 84° Shore A

- Recommended pretension 4 - 6 %[2]

- Working tension approx. 14 daN/cm

Coefficient of friction μ: Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | **FDA/EC-conform**



T-Profile PU 80 A ultramarine blue smooth (15 x 5 mm)

Food FDA / EC compliant

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm^2	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBTJ15X5L	15 x 5	0,40	4,8	50	(164)	50	2,0	11,2	24,6

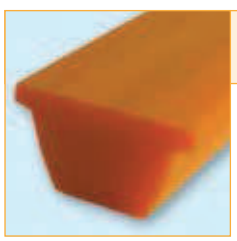
* = coefficient of friction μ:0,5

approx. 84° Shore A

- Recommended pretension 4 - 6 %

- Working tension approx. 14 daN/cm^2

Coefficient of friction μ: Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | **FDA/EC-conform**



3L T-Top PU 80 A orange smooth (14,3 x 7,5 mm)

Food FDA / EC compliant

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm^2	kg/100 m	ft	(m)	mm	inch	daN	lbs
FBTJ142X75O	14,3 x 7,5	0,72	8,7	100	(30,48)	85	3,4	20,0	44,2

* = coefficient of friction μ:0,5

approx. 84° Shore A

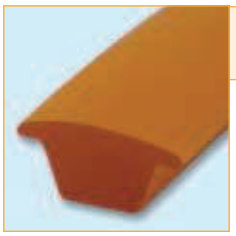
- Recommended pretension 4 - 6 %

- Working tension approx. 14 daN/cm^2

Coefficient of friction μ: Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | **FDA/EC-conform**

Crown Top PU 80 A orange smooth (14,3 x 6,3 mm)

Food FDA / EC compliant



Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm²	kg/100 m	ft	(m)	mm	inch	daN	lbs
FBTJ143X63OG	14,3 x 6,3	0,58	7	100	(30,48)	85	3,4	16,2	36,4

* = coefficient of friction µ:0,5

approx. 84° Shore A

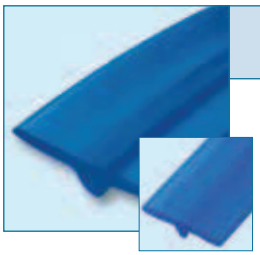
- Recommended pretension 4 - 6 %
- Working tension approx. 14 daN/cm²

Coefficient of friction µ: Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | **FDA/EC-conform**

Shore 88 A

T-Profile PU 85 A sapphire blue smooth/grooved**(25x5mm)

Food FDA / EC compliant



Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBSP85A25X5B	25 x 5	0,59	7,3	30	(98,4)	50	2,0	20,0	44,2
FBTK25X5LGA (grooved)	25 x 5	0,59	7,3	30	(98,4)	50	2,0	20,0	44,2

**refer to page 57, * = coefficient of friction µ:0,5

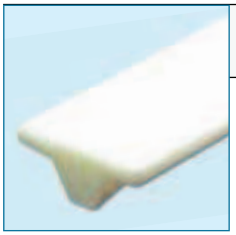
approx. 88° Shore A

- Recommended pretension 4 - 6 %
- Working tension approx. 17 daN/cm²

Coefficient of friction µ: Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25 | **FDA/EC-conform**

T-Profile PU 85 A white (20 x 8 mm)

Food FDA / EC compliant



Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBSP85A20X8W	20x8	0,83	10,0	30	(98,4)	100	4,0	28,2	62,2

* = coefficient of friction µ:0,5

T-Profile 20x8 sapphire blue FBSP85A20X8 on request

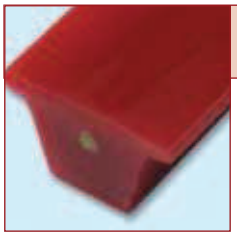
approx. 88° Shore A

- Recommended pretension 4 -6 %
- Working tension approx. 17 daN/cm²

Coefficient of friction µ: Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25 | **FDA/EC-conform**

Shore 92 A

T-V-belt PU 90 A red, reinforced aramid



Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm²	kg/100 m	m	(ft)	mm	inch	daN	lbs
FBSL17X13X25	17 x 13 x 25	1,88	23,0	50	(164)	210	8,3	94,0	206,8
FBSL22X16X25	22 x 16 x 25	2,82	34,0	30	(98,4)	280	11,0	141,0	310,2

* = coefficient of friction µ:0,5

approx. 92° Shore A

- Recommended pretension 0,5 - 2 %
- Working tension approx. 25 daN/cm²

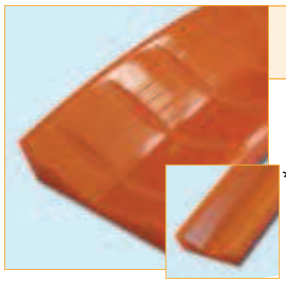
Coefficient of friction µ: Steel: approx. 0,50 | PE: approx. 0,30 | HDPE: approx. 0,25

** The cogged bottom enables the belt to run over smaller pulleys (approx. 25% smaller) but also decreases the maximum working tension (approx. 15%). Cogged V-Belts can not be used as timing belts.

Available cogged on request**

Cornbelt

Shore 84 A



Corn belt PU 80 A orange smooth with/without serrations

Food FDA / EC compliant

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm^2	kg/100 m	ft	(m)	mm	inch	daN	lbs
FBSJ8X33OG*	33 x 8	1,9	22,8	100	(30,48)	55	2,2	53,2	117,0
FBSJ8X33OGA	33 x 8	1,9	22,8	100	(30,48)	55	2,2	53,2	117,0

* = coefficient of friction μ:0,5

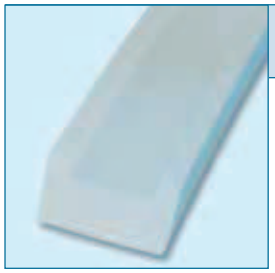
approx. 84° Shore A

- Recommended pretension 4 - 6 %
- Working tension approx. 14 daN/cm^2

Coefficient of friction μ: Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | **FDA/EC-conform**

French Fry ADR-Profiles

Shore 88 A



U-Profile PU 85 A milky smooth

Food FDA / EC compliant

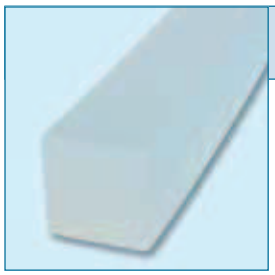
Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll	Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm^2	kg/100 m	ft	mm	inch	daN	lbs
FBSP85A180S1	18 x 11,8	1,70	20,0	1 x 30`5`` / pcs.	120	4,7	57,8	127,2
FBSP85A180S6	18 x 11,8	1,70	20,0	6 x 30`5`` / pcs.	120	4,7	57,8	127,2

* = coefficient of friction μ:0,5

approx. 88° Shore A

- Recommended pretension 4 - 6 %
- Working tension approx. 17 daN/cm^2

Coefficient of friction μ: Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25 | **FDA/EC-conform**



Square-Profile PU 85 A milky smooth

Food FDA / EC compliant

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll	Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	cm^2	kg/100 m	ft	mm	inch	daN	lbs
FBSP85A118S1	11,8 x 11,8	1,39	16,7	1 x 30`5`` / pcs.	120	4,7	47,2	104,0
FBSP85A118S6	11,8 x 11,8	1,39	16,7	6 x 30`5`` / pcs.	120	4,7	47,2	104,0

* = coefficient of friction μ:0,5

approx. 88° Shore A

- Recommended pretension 4 - 6 %
- Working tension approx. 17 daN/cm^2

Coefficient of friction μ: Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25 | **FDA/EC-conform**

BEHAbelt
Made in Germany

We offer special extrusions quickly and efficiently, due to our in-house state of the art tool making shop. According to your specification, our engineers develop the tooling to make YOUR profile that fits your application to 100%.

Type/View	Description	Dimension
	**Round belt as T-Profile** FBSP90A08T	8 x 8,75 x 12,5 mm
	**Special V-belt** FBSR22X16BG (TPE 55 D)	22 x 16 mm
	**Double V-belts (Hexagon)** FBDP90A17	17 x 13,5 mm
	**Twin-V-belts**	15 x 8 mm 20 x 8 mm
	**Twin-V-belts**	12 x 4,8 mm 24 x 5 mm 37 x 8,5 mm
	**Lo-Ridge-Top-belt**	13 x 11 mm
	**Prism V-belts**	13 x 7,5 mm
	**Round belt as T-Profile**	14,3 x 6,3 mm 19,2 x 5,5 mm
	**T-Profile**	12,7 x 5,5 mm
	**T-Profile**	9,5 x 3,8 mm
	**Chain live roller belt (ALR Profile)**	15,7 x 13,6 mm
	**U-Profile**	9,5 x 8 mm
	**Brush V-belts (PU and TPE)**	8 x 5 mm 10 x 6 mm 13 x 8 mm 17 x 11 mm

NOTE:
For special profiles there is always a minimum order quantity and possibly also proportionate tool costs. Above overview of profiles is also to inspire you what types of profiles in PU and TPE could be possible. Just contact us, we are pleased to prepare a individual offer for you!

Custom profiles and belts

If a standard profile does not meet the requirenments of your application Beha Innovation can make a customized profile tailored to your needs.
One of the main strengths of Beha is the ability to study your application and requirements in detail. We then provide the optimal solution by selecting the best material combination and best belt construction along with the most economic manufacturing method.
There can be numerous reasons to choose a customized profile. Customized profiles can be used to optimize the application, to extend the lifetime of a belt, to give a profile your „corporate colours“, to secure a exclusive spare parts supply chain or to just make sure that the belt that a machine was designed for really is used.
With our state-of-the-art in-house tool shop we have the best of both worlds: the neccesarry and specialized know-how in-house and the set-up to offer the shortest possible lead times making a new profile.

A key aspect for us of course is also not only to focus on technical exellency but also on offering the best cost-performance ratio – due to our low overhead and and short lead times we are able to finalize your profile in a very timely manner.
We can offer you the optimal custom profile at attractive prices.

Please let us know you specific requirenments!

BEHAbelt
Made in Germany

Express Service endless belts:

Our customers not only require belts by the roll but also ready joined belts. This is why at Beha we offer our „Express Service endless belts“:

Flexible:
We can supply endless round belts, V-belts and special profiles in a diversity of lengths, diameters and shore hardnesses from our facility in Glottertal. We can support the need for high volume endless belts in North America through production in Glottertal and warehousing in Chicago.

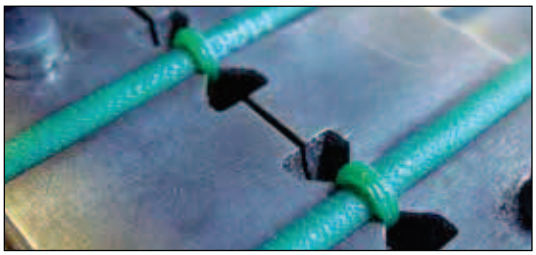
Express Service for small and big quantities:
When we designed the machines of our tailoring shop our goal was to being able to fabricate both small and big quantities at attractive cost and to ensure delivery of orders within a couple of days only - we optimized machine set-up times and lead times.

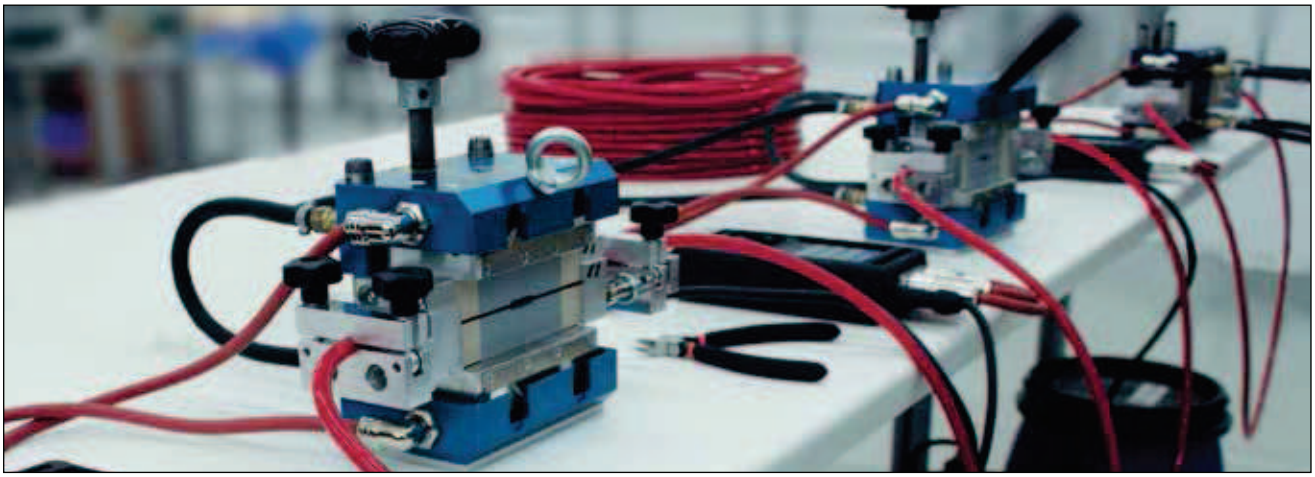
Quality:
We can deliver top quality endless belts with high repeat accuracy due to our special welding technology and our QM system according to ISO 9001 with repeat tests and qualification when processing your orders.

Note: information on how to calculate a belt length for tailoring please refer to page 95

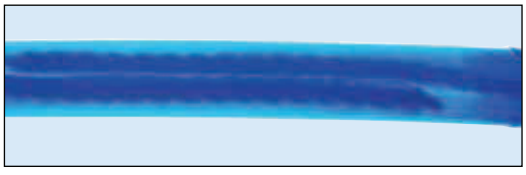
Standard & extra strong:
You must select the correct joining equipment and method based on the type of belting you are welding:

For non-reinforced belts the classic butt weld with the Beha developed special welding technology is a good and economic solution.





For reinforced belts the classic butt weld is only suitable in very few cases. Here we strongly recommend an overlap belt with our HP01 overlap joining system that was expecially developed for reinforced belting. An overlap weld on a reinforced belt will increase the strength of the splice considerably and provide a belt with less stretch.



BEHAbelt
Made in Germany

Fast field installation without dismantling shafts

Twisted PU round belts

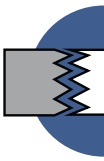
Twisted PU round belts, also called „quick connect belts“, are the perfect solution for roller conveyor systems where more than one belt is sitting on a shaft (called vertical drive). Twisted belts are mounted with the hook open, which then is being closed with pliers once the belt is sitting in the right place.

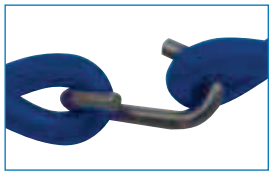
Advantage::
No costly and time consuming dismantling of shafts needed when installing or replacing a belt (short breakdown times).

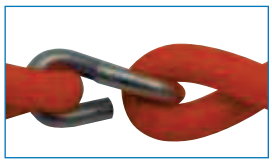
Product	PU 70 A			PU 75 A PLUS		
Harden/Shore	76 A			80 A		
Colour	sky blue			orange		
FDA/EC	yes, smooth			no, smooth (rough)		
CoF (Steel) - µ	approx. 0,75			approx. 0,70		
Pretension	8-10%			6-8%		
Diameter	Pulley Diameter	**Fmax/belt (standard)***		Pulley Diameter	**Fmax/belt (standard)***	
mm	mm	daN	lbs	mm	daN	lbs
∅ 5,0	40	3,5	7,7	40	6,0	13,2
Order No.: FBXH3X250LG…FBXH3X450LG				**Order No.: FBXI3X2500G…FBXI3X4500G**		
Available standard lenghts of 250-710 mm						

* = coefficient of friction µ:0,5
This is a drive application, please calculate the working load

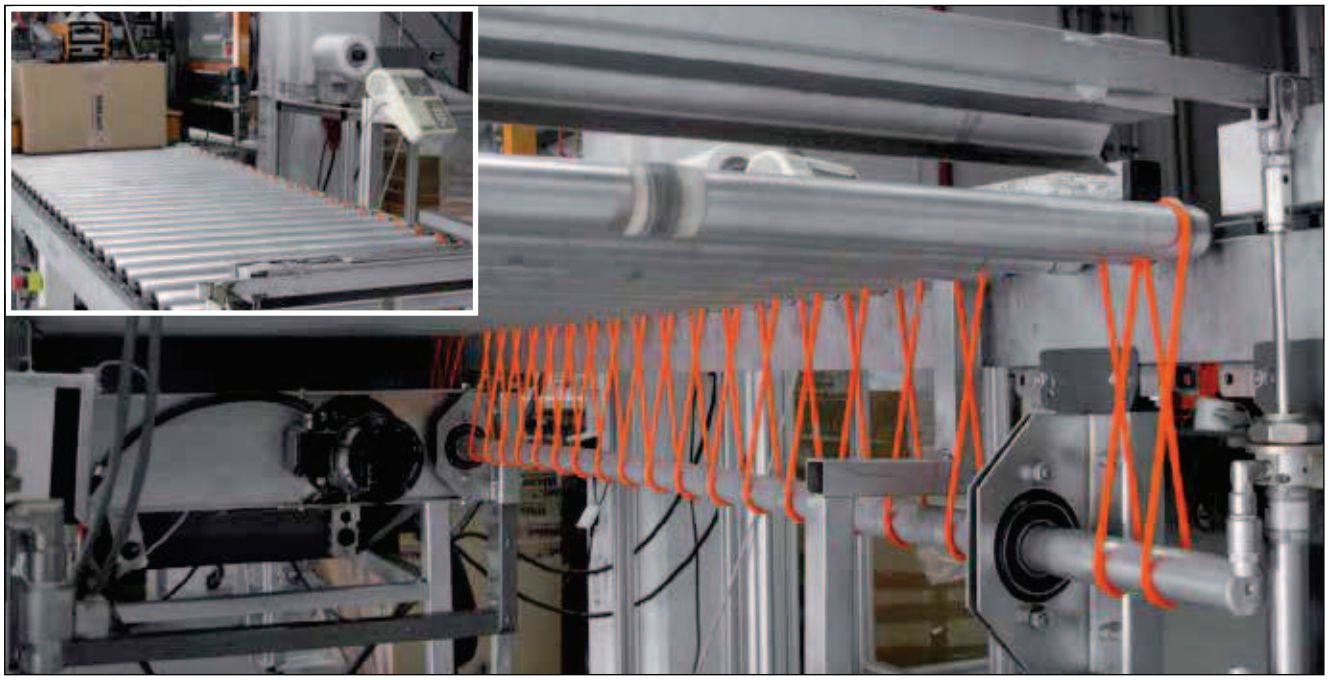
Measure the correct belt length tip to tip (production length LF), without the hook





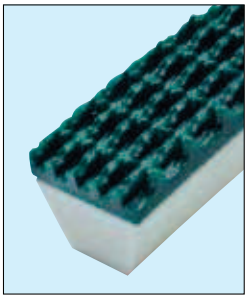


Construction: 2 x ∅ 3mm (∅ 5 mm)

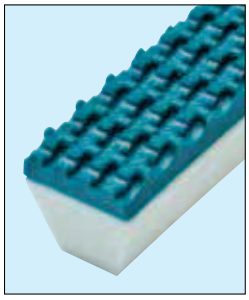


Top covers

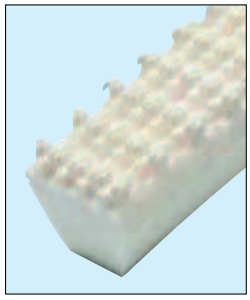
We offer a wide range of top covers for V-belts and other profiles for a multitude of applications. Below please find a selection of the most common top covers. The top cover you are looking for is not among them? Just contact us!



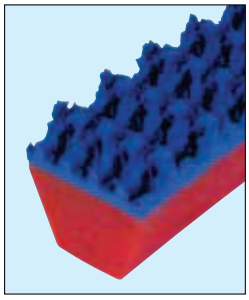
Supergrip PVC-green
40° Shore A



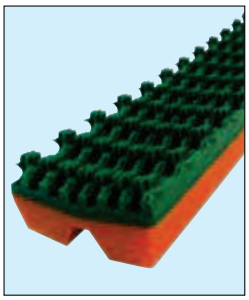
Supergrip PVC-blue
40° Shore A



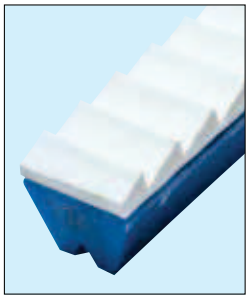
Supergrip PVC-white
40° Shore A (FDA)



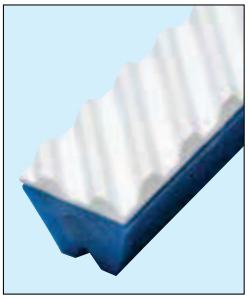
Supergrip rubber blue
70° Shore A



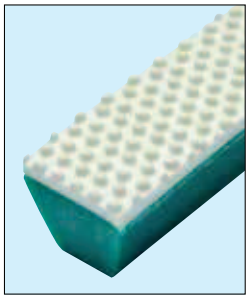
Supergrip
40° Shore A



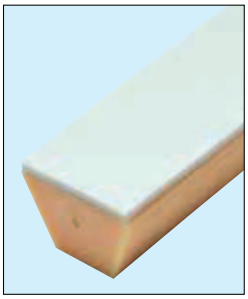
Saw tooth coating PVC white
approx. 60° Shore A (FDA)



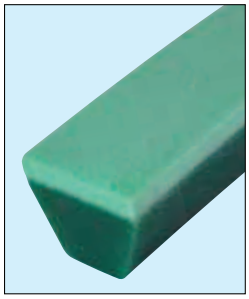
Herring bone coating PVC white
approx. 60° Shore A (FDA)



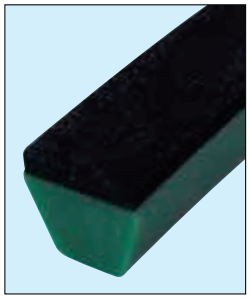
Knob coating PVC white
40° Shore A (FDA)



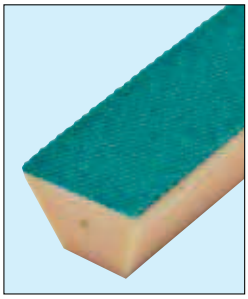
PVC-Film white
40° Shore A



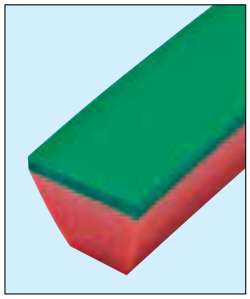
Sylomer L green
PU-foam



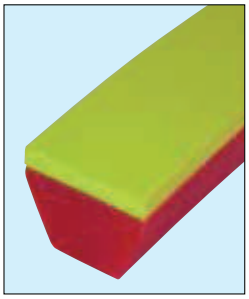
Porol black cell rubber



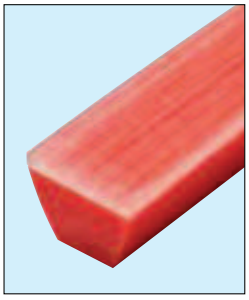
PA fabric



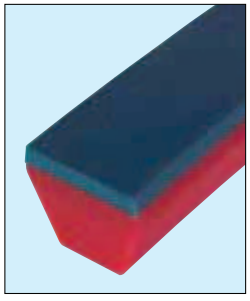
Elastomer green
60° Shore A (very adhesive)



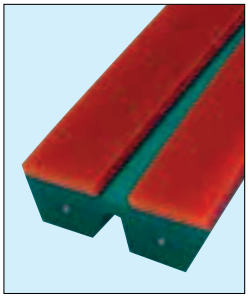
RP 400 rubber
35° Shore A



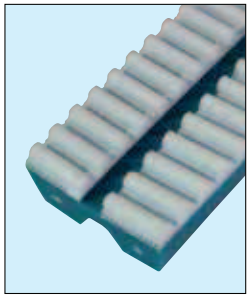
PU-foil coating
85° Shore A



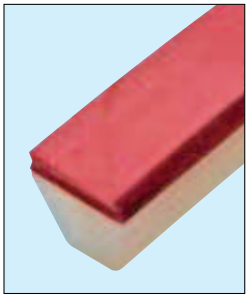
PVC blue
40° Shore A



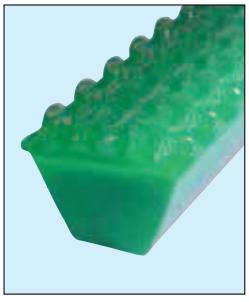
PU-foil 70° Shore A



Corrugated coating



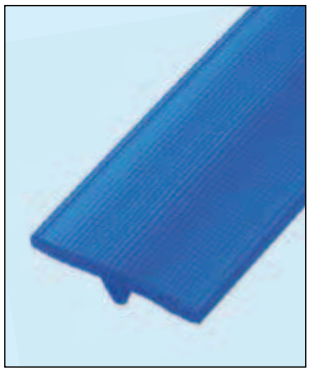
Linatex red
38° Shore A



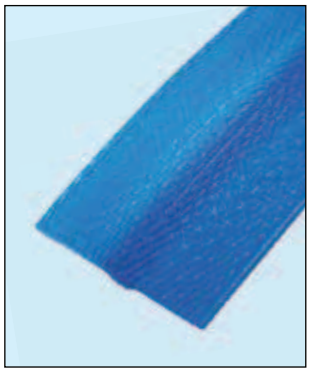
Supergrip PU-trans. 60 ° Shore A
2C (Co-Extrusion)

Further coating options are possible. Let us know your application.

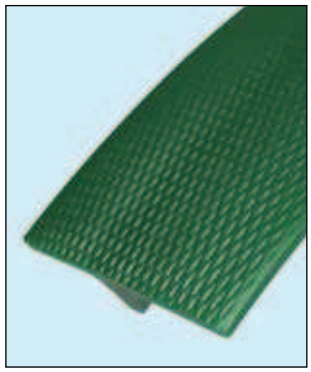
Examples for embossing and mechanical treatment of profiles



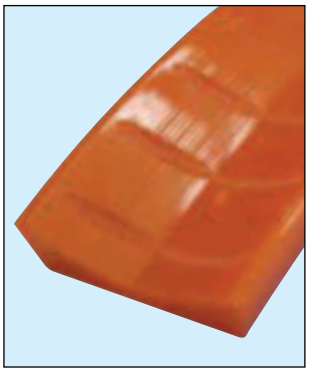
Surface grooved, ultra-fine structure



Embossed surface, ultra-rough structure

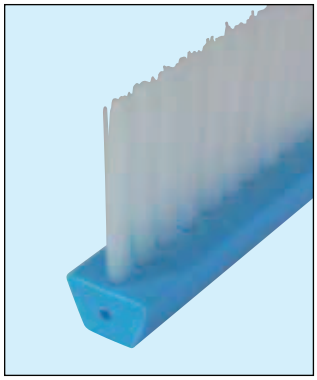


Embossed surface, diamond structure

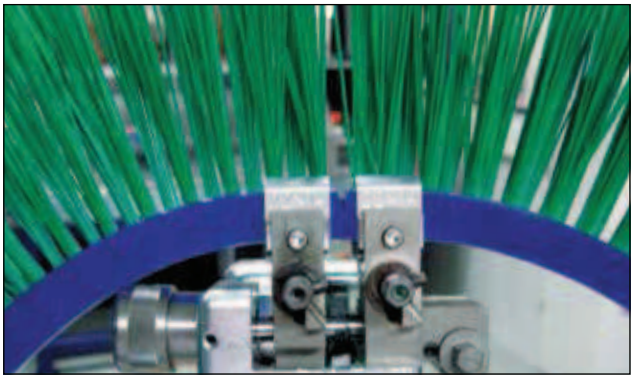


Notched surface

Example for brushed V-belts (PU and TPE)

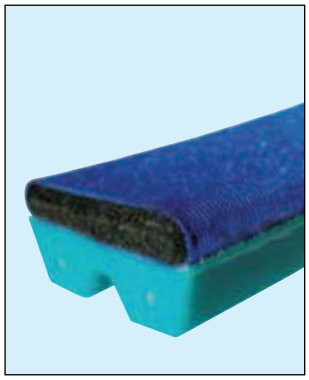


Brushed V-belt, TPE 55 D



Special jaws for friction welding machine RS02 available!

Examples for special belts and special applications

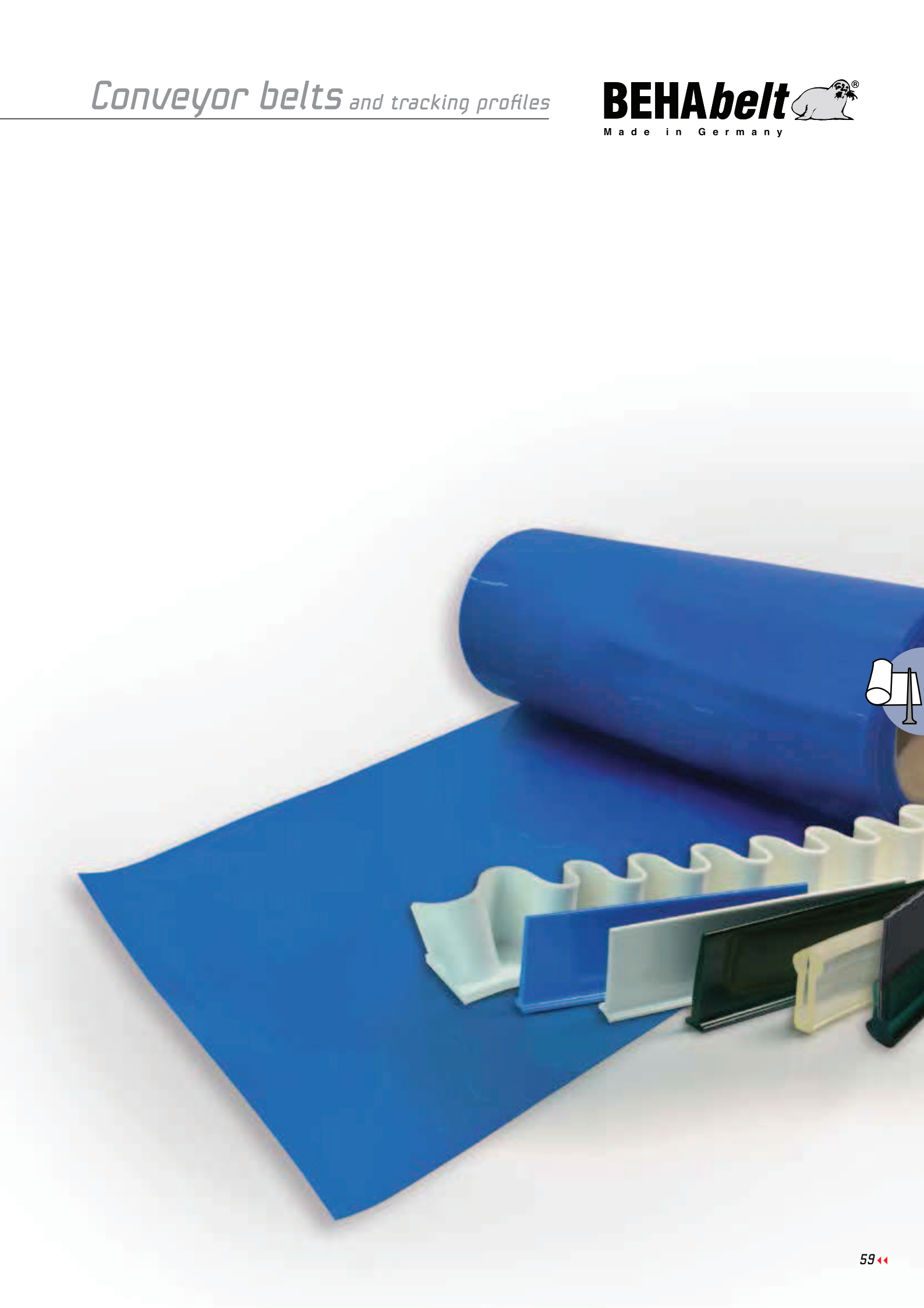


Application: PET bottles
joint: HP01 overlap

Application: shoot binder for winegrowing


3
2
1

BEHAbelt
Made in Germany



BEHAbelt **conveyor belts 700**

With our new product line BEHAbelt flat belts 700 we extend our already versatile homogeneous flat belt line up to a belt width of 700 mm. All belts are made out of our proven homogeneous TPU and TPE materials and therefore grant excellent properties for your conveying job.
Addressing your requirenments for the flat belt we offer you this product line in different belt thicknesses. Due to our flexible production we are also able to provide you with customer specific belt types quickly and at a reasonable price. Please contact us; we are pleased to prepare a quote!

In many industrial applications and especially in the food industry homogeneous belts made of TPU and TPE are more and more used for general conveyor belt applications. Customers would like to benefit from the many advantages offered by this material and belt design.

Our product range includes a big variety of belts and coatings in order to meet the requirements of your specific application. This starts with smooth elastic belts with high grip and goes up to hard belt materials with low stretch and special cut and abrasion resistance.
Our belts can be easily welded on site in the conveyor system, thereby minimizing production downtime.
With our new standard program we cover the common types of hardness and color which are typically used in the food industry.

There are several reasons for our homogeneous conveyor belts:

- Easily cut to your required belt width
- Smooth surfaces eliminate any crevices where bacteria may habour
- No exposed fabrics or seams which can fray
- Belt is homogeneous so eliminates any chance of ply separation
- Easy and quick cleaning on site possible
- Heavily reduced consumption of water and chemicals for daily cleaning
- Easy belt installation and repair on-site possible
- Easy joining and excellent weldability
- High resistance against water, oil and many chemicals
- High cut and abrasion resistance
- FDA/EC compliant product line as well as detectable type (for metal decectors in food production lines)

Main areas of application

- Food industry
- Pharmaceutical industry
- Packaging industry
- Plastic industry (injection moulding)
- Printing industry
- Textile industry
- Glass industry

All advantages of our homogeneous BEHAbelt conveyor belts at a glance:

Cleanliness

The smooth surface does not offer any crevices where bacteria can habour.

The easy belt cleaning reduces the maintenance costs by:

- low water and cleaning detergent consumption
- low cost for fumigation
- reduced production downtime

Our belts for the food industry are very hygienic due to their homogeneous material properties and smooth surfaces. This is also the reason for the excellent humidity repelling property of our belts.

FDA / EC compliant

BEHAbelt conveyor belts can be used throughout the food industry – for transport as well as in the processing area with direct food contact. Our food industry belts comply with the requirements of the latest international standards regarding direct contact of food with plastics (FDA/EC) and therefore offer you the perfect solution for your HACCP concept.

Durability

BEHAbelt conveyor belts are very words are OK but no spacing between them! There are no plies to separate.
A further advantage is that if damage occurs, the belt can be spot repaired and the entire belt does not need to be replaced.
When selecting the materials for manufacturing our conveyor belts we refer to our proven materials having a very high abrasion resistance.

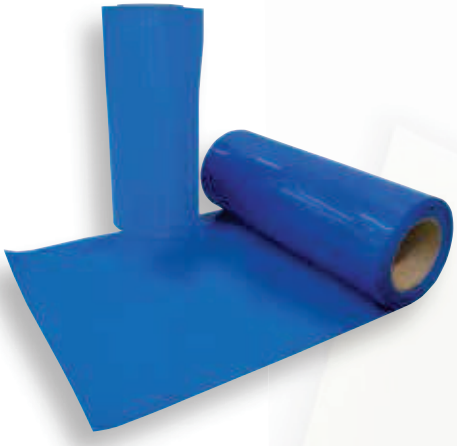
Individuality

The homogeneous feature of BEHAbelt flat belts enables you to easily cut the belts into the desired width.
Even making a wider belt is possible by joining the belts lengthwise with the help of a hot air gun (electrode). This helps you to keep you remnants low.

BEHAbelt flat belts can be easily fabricated with our belt accessories such as sidewalls, cleats, V-guides and other profiles and offer reliable and long-lasting operation due to their excellent weldability.

Versatility

The BEHAbelt flat belts are currently available in the hardness range of



Shore 74A to 55D. This wide range of different hardness, flexibility and grip makes it possible to meet the various customer specific requirements.

Easy repair

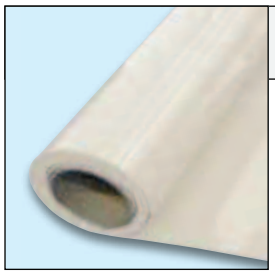
If a belt is punctured or torn you can easily repair it after thorough cleaning by welding it with an electrode. The strength of the belt will not be reduced in this area! For a larger damaged area a replacement patch can be quickly welded in to repair the damage. The repairs are quick and easy and make the belt ready for operation again in a very short time.

Easy installation

The installation is very easy. Welding of your belt on-site can be quickly done with a paddle welding tool or a hot air gun (using an electrode).
For most belt widths one technician is sufficient to safely operate the tools.

Our flat belts are ideally suited for joining with standard joining tools such as paddle welding or hot air gun with electrode. In the shop you can also use vulcanizing presses.

Shore 72 A



PU 65 A transparent → top cover coating

Food FDA / EC compliant

Order No.	Profile thickness		max. Max. Profile width		Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	inch	mm	inch	ft	(m)	mm	inch	N/mm	lbs/inch
FBFG700X16TG	1,6	1/16	700	27,5	100	(30,48)	10	0,4	1,1	6,1
FBFG700X20TG	2,0	5/64	700	27,5	100	(30,48)	15,0	0,6	1,5	8,4
FBFG700X30TG	3,0	1/8	700	27,5	100	(30,48)	25,0	1,0	2,5	14,0

* = coefficient of friction μ:0,5

approx. 72° Shore A

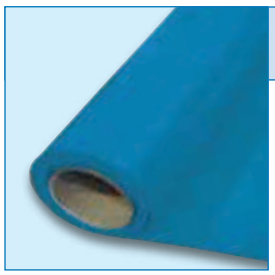
- Recommended pretension 1 - 4 %

- Working tension approx. 9 daN/cm²

Temperature area -40°/+50°C

Coefficient of friction μ: Steel: approx. 0,75 | PE: approx. 0,45 | HDPE: approx. 0,40 | **FDA/EC-conform**

Shore 80 A



PU 75 A sky blue → conveyor belt (short distance, fixed pulleys)

Food FDA / EC compliant

Order No.	Profile thickness		max. Max. Profile width		Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	inch	mm	inch	ft	(m)	mm	inch	N/mm	lbs/inch
FBFI700X16LG	1,6	1/16	700	27,5	100	(30,48)	12,0	0,5	1,9	10,6
FBFI700X20LG	2,0	5/64	700	27,5	100	(30,48)	18,0	0,7	2,4	13,4
FBFI700X30LG	3,0	1/8	700	27,5	100	(30,48)	30,0	1,2	3,6	20,1

* = coefficient of friction μ:0,5

approx. 80° Shore A

- Recommended pretension 1 - 4 %

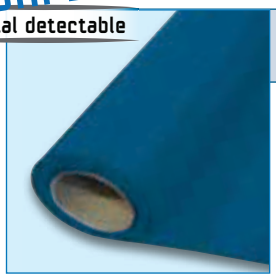
- Working tension approx. 12 daN/cm²

Temperature area -40°/+50°C

Coefficient of friction μ: Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35 | **FDA/EC-conform**

Shore 84 A

SAFE Metal detectable



PU 80 A SAFE metal detectable capri blue →conveyor belt

Food FDA / EC compliant

Order No.	Profile thickness		max. Max. Profile width		Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	inch	mm	inch	ft	(m)	mm	inch	N/mm	lbs/inch
FBFJ700X16LA	1,6	1/16	700	27,5	100	(30,48)	18,0	0,7	2,4	13,4
FBFJ700X20LA	2,0	5/64	700	27,5	100	(30,48)	25,0	1,0	3,0	16,8
FBFJ700X30LA	3,0	1/8	700	27,5	100	(30,48)	40,0	1,6	4,5	25,1

* = coefficient of friction μ:0,5

approx. 84° Shore A

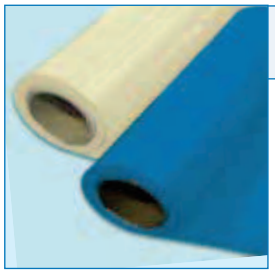
- Recommended pretension 1 - 4 %

- Working tension approx. 15 daN/cm²

Temperature area -30°/+60°C

Coefficient of friction μ: Steel: approx. 0,65 | PE: approx. 0,35 | HDPE: approx. 0,30 | **FDA/EC-conform**

Shore 95 A



PU 95 A beige/sky blue → conveyor belt

Food FDA / EC compliant

Order No.	Profile thickness		max. Max. Profile width		Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	inch	mm	inch	ft	(m)	mm	inch	N/mm	lbs/inch
FBFL700X20BG (beige)	2,0	5/64	700	27,5	100	(30,48)	45,0	1,8	8,0	44,7
FBFL700X30BG (beige)	3,0	1/8	700	27,5	100	(30,48)	60,0	2,4	12,0	67,1
FBFL700X20LG (blau)	2,0	5/64	700	27,5	100	(30,48)	45,0	1,8	8,0	44,7
FBFL700X30LG (blau)	3,0	1/8	700	27,5	100	(30,48)	60,0	2,4	12,0	67,1

approx. 95° Shore A

- Recommended pretension 0,5 - 2 %

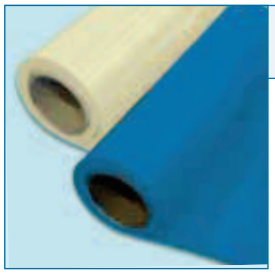
- Working tension approx. 30 daN/cm²

* = coefficient of friction µ:0,5

Temperature area -20°/+60°C

Coefficient of friction µ: Steel: approx. 0,50 | PE: approx. 0,25 | HDPE: approx. 0,20 | **FDA/EC-conform**

Shore 55 D



TPE 55 D beige/sky blue → conveyor belt

Food FDA / EC compliant

Order No.	Profile thickness		Max. Profile width		Standard Roll		Recommended Min. pulley ∅		Fmax/belt (standard)*	
	mm	inch	mm	inch	ft	(m)	mm	inch	N/mm	lbs/inch
FBFS700X20BG (beige)	2,0	5/64	700	27,5	100	(30,48)	60,0	2,4	12,0	67,1
FBFS700X30BG (beige)	3,0	1/8	700	27,5	100	(30,48)	80,0	3,2	18,0	100,6
FBFS700X20LG (blau)	2,0	5/64	700	27,5	100	(30,48)	60,0	2,4	12,0	67,1
FBFS700X30LG (blau)	3,0	1/8	700	27,5	100	(30,48)	80,0	3,2	18,0	100,6

approx. 55° Shore D

- Recommended pretension 0,5 - 2 %

- Working tension approx. 50 daN/cm²

* = coefficient of friction µ:0,5

Temperature area -20°/+80°C

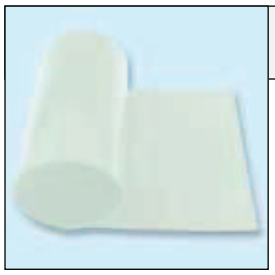
Coefficient of friction µ: Steel: approx. 0,35 | PE: approx. 0,20 | HDPE: approx. 0,15 | **FDA/EC-conform**

Weight of flat belts 700

Profile dimension	ca. Weight/Meter	Weight/Coil*	100 ft	(30,48m)
mm	kg	kg		
1,6	1,35	44,8		
2,0	1,70	55,5		
3,0	2,50	79,9		

* = incl. hard paper core = 3,7kg

Shore 65 A



PU 60 A transparent smooth

Food FDA / EC compliant

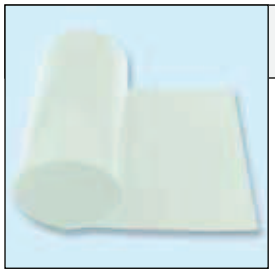
Order No.	Profile thickness		max. Profile width		Standard Roll		Recommended Min. pulley ∅	
	mm	inch	mm	inch	m	(ft)	mm	inch
FBFF150X1TG	1,0	3/64	140	5,5	50	(164)	8,0	0,3
FBFF150X16TG	1,6	1/16	140	5,5	50	(164)	10,0	0,4
FBFF150X2TG	2,0	5/64	140	5,5	50	(164)	12,0	0,5
FBFF150X3TG	3,0	1/8	140	5,5	50	(164)	15,0	0,6
FBFF150X4TG	4,0	5/32	140	5,5	50	(164)	25,0	1,0

approx. 65° Shore A

- Recommended pretension 1 - 4 %
- Working tension approx. 7 daN/cm²

Coefficient of friction μ: Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35 | **FDA/EC-conform**

Shore 72 A



PU 65 A transparent smooth

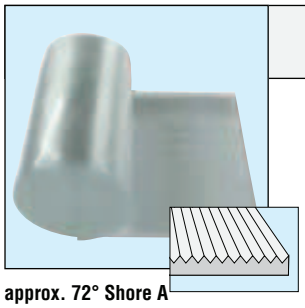
Food FDA / EC compliant

Order No.	Profile thickness		max. Profile width		Standard Roll		Recommended Min. pulley ∅	
	mm	inch	mm	inch	m	(ft)	mm	inch
FBFG150X1TG	1,0	3/64	140	5,5	50	(164)	8,0	0,3
FBFG150X16TG	1,6	1/16	140	5,5	50	(164)	12,0	0,5
FBFG150X2TG	2,0	5/64	140	5,5	50	(164)	15,0	0,6
FBFG150X3TG	3,0	1/8	140	5,5	50	(164)	20,0	0,8
FBFG150X4TG	4,0	5/32	140	5,5	50	(164)	30,0	1,2

approx. 72° Shore A

- Recommended pretension 1 - 4 %
- Working tension approx. 9 daN/cm²

Coefficient of friction μ: Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35 | **FDA/EC-conform**



PU 65 A transparent, surface multi-V-ribbed**

Food FDA / EC compliant

Order No.	Profile thickness		max. Profile width		Standard Roll		Recommended Min. pulley ∅	
	mm	inch	mm	inch	m	(ft)	mm	inch
FBFG150X26TW	2,6	1/10	140	5,5	50	(164)	18,0	0,7
FBFG150X3TW	3,0	1/8	140	5,5	50	(164)	20,0	0,8

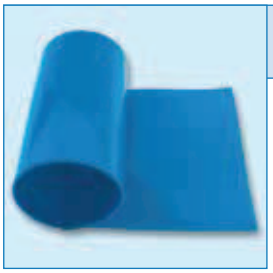
**Shape of ribbs according to DIN 7867/ISO 9982

approx. 72° Shore A

- Recommended pretension 1 - 4 %
- Working tension approx. 9 daN/cm²

Coefficient of friction μ: Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35 | **FDA/EC-conform**

Shore 80 A



approx. 80° Shore A

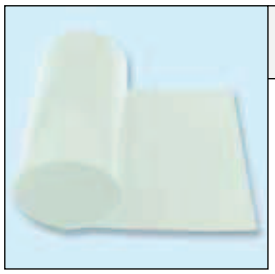
- Recommended pretension 1 - 4 %
- Working tension approx. 13 daN/cm²

PU 75 A sky blue smooth

Food FDA / EC compliant

Order No.	Profile thickness		max. Profile width		Standard Roll		Recommended Min. pulley ∅	
	mm	inch	mm	inch	m	(ft)	mm	inch
FBFI100X1LG	1,0	3/64	140	5,5	30	(98,4)	10,0	0,4
FBFI150X16LG	1,6	1/16	140	5,5	30	(98,4)	15,0	0,6
FBFI150X2LG	2,0	5/64	140	5,5	30	(98,4)	20,0	0,8
FBFI150X3LG	3,0	1/8	140	5,5	30	(98,4)	25,0	1
FBFI150X4LG	4,0	5/32	140	5,5	30	(98,4)	35,0	1,4

Coefficient of friction μ: Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35 | **FDA/EC-conform**



approx. 80° Shore A

- Recommended pretension 1 - 4 %
- Working tension approx. 13 daN/cm²

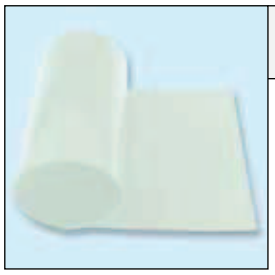
PU 75 A transparent smooth

Food FDA / EC compliant

Order No.	Profile thickness		max. Profile width		Standard Roll		Recommended Min. pulley ∅	
	mm	inch	mm	inch	m	(ft)	mm	inch
FBFI150X1TG	1,0	3/64	140	5,5	30	(98,4)	10,0	0,4
FBFI150X16TG	1,6	1/16	140	5,5	30	(98,4)	15,0	0,6
FBFI150X2TG	2,0	5/64	140	5,5	30	(98,4)	20,0	0,8
FBFI150X3TG	3,0	1/8	140	5,5	30	(98,4)	25,0	1
FBFI150X4TG	4,0	5/32	140	5,5	30	(98,4)	35,0	1,4

Coefficient of friction μ: Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35 | **FDA/EC-conform**

Shore 88 A



approx. 88° Shore A

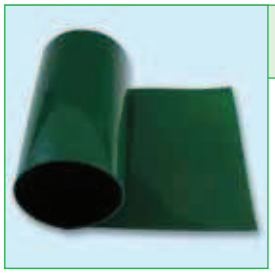
- Recommended pretension 0,5 - 2 %
- Working tension approx. 18 daN/cm²

PU 85 A transparent smooth

Food FDA / EC compliant

Order No.	Profile thickness		max. Profile width		Standard Roll		Recommended Min. pulley ∅	
	mm	inch	mm	inch	m	(ft)	mm	inch
FBFK150X1TG	1,0	3/64	140	5,5	30	(98,4)	15,0	0,6
FBFK150X16TG	1,6	1/16	140	5,5	30	(98,4)	20,0	0,8
FBFK150X2TG	2,0	5/64	140	5,5	30	(98,4)	30,0	1,2
FBFK150X3TG	3,0	1/8	140	5,5	30	(98,4)	35,0	1,4
FBFK150X4TG	4,0	5/32	140	5,5	30	(98,4)	45,0	1,8

Coefficient of friction μ: Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25 | **FDA/EC-conform**



approx. 88° Shore A

- Recommended pretension 0,5 - 2 %
- Working tension approx. 18 daN/cm²

PU 85 A green smooth

Order No.	Profile thickness		max. Profile width		Standard Roll		Recommended Min. pulley ∅	
	mm	inch	mm	inch	m	(ft)	mm	inch
FBFK100X1GG	1,0	3/64	140	5,5	30	(98,4)	15,0	0,6
FBFK150X16GG	1,6	1/16	140	5,5	30	(98,4)	20,0	0,8
FBFK150X2GG	2,0	5/64	140	5,5	30	(98,4)	30,0	1,2
FBFK150X3GG	3,0	1/8	140	5,5	30	(98,4)	35,0	1,4
FBFK150X4GG	4,0	5/32	140	5,5	30	(98,4)	45,0	1,8

Coefficient of friction μ: Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25

Shore 84 A

Ready-made belts

PU 80 A orange smooth

Food FDA / EC compliant

Order No.	Profile thickness		Max. Profile width		Standard Roll		Recommended Min. pulley ∅	
	mm	inch	mm	inch	ft	(m)	mm	inch
FBFJOG1	1,6	1/16	12,5	1/2	100	(30,48)	15	0,6
FBFJOG2	1,6	1/16	19	3/4	100	(30,48)	15	0,6
FBFJOG3	1,6	1/16	38	11/2	100	(30,48)	15	0,6
FBFJOG4	1,6	1/16	44	13/4	100	(30,48)	15	0,6
FBFJOG5	1,6	1/16	50	2	100	(30,48)	15	0,6
FBFJOG6	1,6	1/16	76	3	100	(30,48)	15	0,6
FBFJOG7	2,4	3/32	25	1	100	(30,48)	20	0,8
FBFJOG8	2,4	3/32	32	11/4	100	(30,48)	20	0,8
FBFJOG9	2,4	3/32	48	11/2	100	(30,48)	20	0,8
FBFJOG10	2,4	3/32	50	2	100	(30,48)	20	0,8
FBFJOG11	3,2	1/8	16	5/8	100	(30,48)	25	1,0
FBFJOG12	3,2	1/8	25	1	100	(30,48)	25	1,0

approx. 84° Shore A

- Recommended pretension 1 - 4 %
- Working tension approx. 15 daN/cm^2

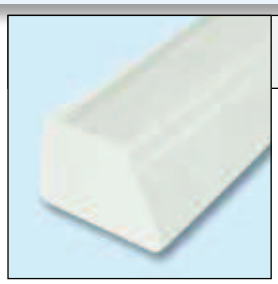
Coefficient of friction μ: Steel: approx. 0,60 | PE: approx. 0,30 | HDPE: approx. 0,25 | **FDA/EC-conform**

Cut-to-width up to 140 mm possible, please contact us!

Guiding and tracking profiles

BEHAbelt offers a broad range of guiding profiles to assist in tracking your conveyor belt.

Advantages:
- All profiles are made of PU and available in different Shore hardness and colours on request
- Approved for the food industry according to FDA / EC
- Excellent welding characteristics on PU and PVC belts using hot air or high frequency

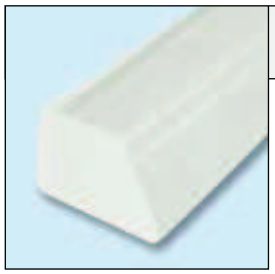


PU 60 A transparent smooth, V-Guide

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅	
	mm	cm²	kg/100 m	m	(ft)	mm	inch
FBKF6YTG	6 x 4 (Y)	0,19	2,3	150	(492)	25,0	1,0
FBKF8MTG	8 x 5 (M)	0,32	4	150	(492)	30,0	1,2
FBKF10ZTG	10 x 6 (Z)	0,48	6	150	(492)	40,0	1,6
FBKF13ATG	13 x 8 (A)	0,82	10	150	(492)	60,0	2,4
FBKF17BTG	17 x 11 (B)	1,46	18	100	(328)	80,0	3,2
FBKF22CTG	22 x 14 (C)	2,40	29	50	(164)	110,0	4,4

approx. 65° Shore A

Coefficient of friction μ: Steel: approx. 0,75 | PE: approx. 0,45 | HDPE: approx. 0,40



PU 70 A transparent smooth, V-Guide

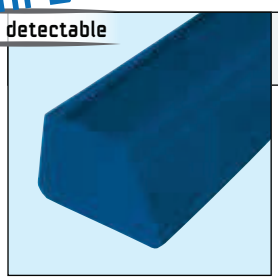
Food FDA / EC compliant

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅	
	mm	cm²	kg/100 m	m	(ft)	mm	inch
FBKH6YTG	6 x 4 (Y)	0,19	2,3	150	(492)	30,0	1,2
FBKH8MTG	8 x 5 (M)	0,32	4	150	(492)	35,0	1,4
FBKH10ZTG	10 x 6 (Z)	0,48	6	150	(492)	45,0	1,8
FBKH13ATG	13 x 8 (A)	0,82	10	150	(492)	70,0	2,8
FBKH17BTG	17 x 11 (B)	1,46	18	100	(328)	90,0	3,6
FBKH22CTG	22 x 14 (C)	2,40	29	50	(164)	130,0	5,2

approx. 74° Shore A

Coefficient of friction μ: Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35 | **FDA/EC-conform**

SAFE
Metal detectable



PU 70 A SAFE capri blue smooth, V-Guide

Food FDA / EC compliant

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll		Recommended Min. pulley ∅	
	mm	cm²	kg/100 m	m	(ft)	mm	inch
FBKF6YLGA	6 x 4 (Y)	0,19	2,3	150	(492)	30,0	1,2
FBKF8MLGA	8 x 5 (M)	0,32	4	150	(492)	35,0	1,4
FBKF10ZLGA	10 x 6 (Z)	0,48	6	150	(492)	45,0	1,8
FBKF13ALGA	13 x 8 (A)	0,82	10	150	(492)	70,0	2,8
FBKF17BLGA	17 x 11 (B)	1,46	18	100	(328)	90,0	3,6
FBKF22CLGA	22 x 14 (C)	2,40	29	50	(164)	130,0	5,2

approx. 74° Shore A

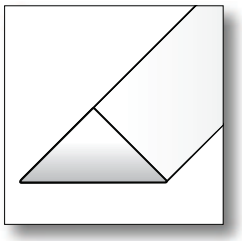
Coefficient of friction μ: Steel: approx. 0,70 | PE: approx. 0,40 | HDPE: approx. 0,35 | **FDA/EC-conform**

All V-Guides in notched version on request

BEHAbelt Made in Germany

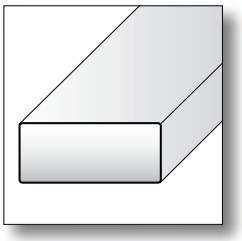
Tracking profile selection

Triangle profile



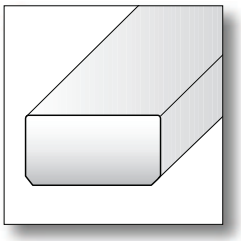
Dimension:
- 20,0 x 13,0 mm
- 30,0 x 13,0 mm

Rectangle profile



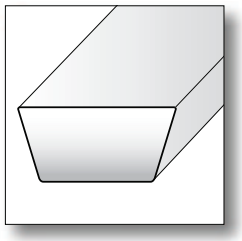
Dimension:
- 9,5 x 4,0 mm
- 22 x 4,4 mm

Special rectangle profile



Dimension:
- 9,2 x 4,4 mm

Special V-profile



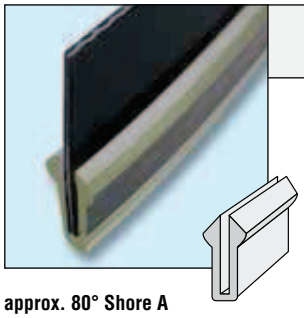
Dimension:
- 15,0 x 5,5 mm

Belt edges

For stabilizing and guiding curved belts so called belt edges are used. In most case the profiles are stitched or glued on the curved belt. Through the profile bead the curved belt can be supported on the edges when running.

Advantages:

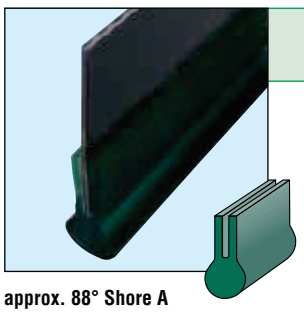
- High tear resistance
- High flexibility
- Low abrasion
- Individual colours possible



approx. 80° Shore A

Belt edge 13 x 26 mm, transparent

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll	
	mm	cm^2	kg/100 m	m	(ft)
FBSP80A13X26	13 x 26	1,49	17,9	30,0	(98,4)

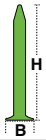


approx. 88° Shore A

Belt edge 14 x 28 mm, emerald green

Order No.	Profile dimension	Cross section	approx. Weight	Standard Roll	
	mm	cm^2	kg/100 m	m	(ft)
FBSP85A14X28	14 x 28	1,9	22,8	30,0	(98,4)

Type: feathered foot
weldable on PU and PVC belts

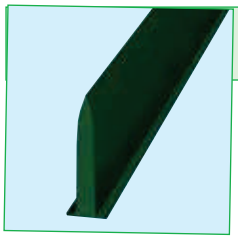


approx. 84° Shore A
FDA/EC-conform

PU 80 A white

Food FDA / EC compliant

Order No.	Height (mm) H	Height (inch) H	Foot width (mm) B	Foot width (inch) B	Weight (g/m)	Standard length per piece (m)	Standard Roll
FBCJ025WUS	25,00	1,00	12,50	0,50	154,00	3,00	80 St. = 240m
FBCJ038WUS	38,00	1,50	12,50	0,50	228,00	3,00	50 St. = 150m
FBCJ050WUS	50,00	2,00	12,50	0,50	302,00	3,00	40 St. = 120m

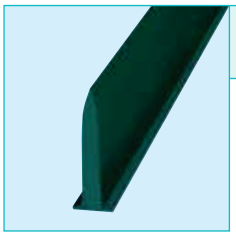


approx. 84° Shore A
FDA/EC-conform

PU 80 A green

Food FDA / EC compliant

Order No.	Height (mm) H	Height (inch) H	Foot width (mm) B	Foot width (inch) B	Weight (g/m)	Standard length per piece (m)	Standard Roll
FBCJ025GUS	25,00	1,00	12,50	0,50	154,00	3,00	80 St. = 240m
FBCJ038GUS	38,00	1,50	12,50	0,50	228,00	3,00	50 St. = 150m
FBCJ050GUS	50,00	2,00	12,50	0,50	302,00	3,00	40 St. = 120m

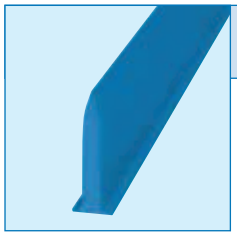


approx. 84° Shore A
FDA/EC-conform

PU 80 A blue green

Food FDA / EC compliant

Order No.	Height (mm) H	Height (inch) H	Foot width (mm) B	Foot width (inch) B	Weight (g/m)	Standard length per piece (m)	Standard Roll
FBCJ025LGUS	25,00	1,00	12,50	0,50	154,00	3,00	80 St. = 240m
FBCJ038LGUS	38,00	1,50	12,50	0,50	228,00	3,00	50 St. = 150m
FBCJ050LGUS	50,00	2,00	12,50	0,50	302,00	3,00	40 St. = 120m



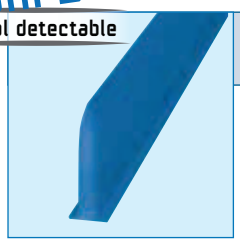
approx. 84° Shore A
FDA/EC-conform

PU 80 A sky blue

Food FDA / EC compliant

Order No.	Height (mm) H	Height (inch) H	Foot width (mm) B	Foot width (inch) B	Weight (g/m)	Standard length per piece (m)	Standard Roll
FBCJ025LUS	25,00	1,00	12,50	0,50	154,00	3,00	80 St. = 240m
FBCJ038LUS	38,00	1,50	12,50	0,50	228,00	3,00	50 St. = 150m
FBCJ050LUS	50,00	2,00	12,50	0,50	302,00	3,00	40 St. = 120m

SAFE
Metal detectable



approx. 84° Shore A
FDA/EC-conform

PU 80 A SAFE capri blue

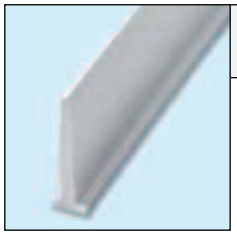
Food FDA / EC compliant

Order No.	Height (mm) H	Height (inch) H	Foot width (mm) B	Foot width (inch) B	Weight (g/m)	Standard length per piece (m)	Standard Roll
FBCJ025LCUS	25,00	1,00	12,50	0,50	154,00	3,00	80 St. = 240m
FBCJ038LCUS	38,00	1,50	12,50	0,50	228,00	3,00	50 St. = 150m
FBCJ050LCUS	50,00	2,00	12,50	0,50	302,00	3,00	40 St. = 120m

Type: narrow foot
weldable on PU belts

PU 90 A white

Food FDA / EC compliant



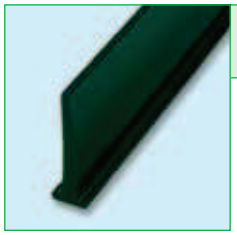
approx. 92° Shore A

FDA/EC-conform

Order No.	Height (mm) H	Height (inch) H	Foot width (mm) B	Weight (g/m)	Standard length per piece (m)	Standard Roll
FBCJ020W	20,00	0,79	10,0	75,00	3,0	80 St. = 240 m
FBCJ030W	30,00	1,18	10,0	109,00	3,0	60 St. = 180 m
FBCJ040W	40,00	1,57	10,0	129,00	3,0	40 St. = 120 m
FBCJ050W	50,00	2,00	10,0	235,00	3,0	40 St. = 120 m
FBCJ060W	60,00	2,40	10,0	280,00	3,0	30 St. = 90 m

PU 90 A green

Food FDA / EC compliant



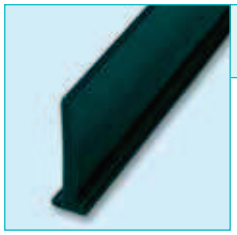
approx. 92° Shore A

FDA/EC-conform

Order No.	Height (mm) H	Height (inch) H	Foot width (mm) B	Weight (g/m)	Standard length per piece (m)	Standard Roll
FBCJ020G	20,00	0,79	10,0	75,00	3,0	80 St. = 240 m
FBCJ030G	30,00	1,18	10,0	109,00	3,0	60 St. = 180 m
FBCJ040G	40,00	1,57	10,0	129,00	3,0	40 St. = 120 m
FBCJ050G	50,00	2,00	10,0	235,00	3,0	40 St. = 120 m
FBCJ060G	60,00	2,40	10,0	280,00	3,0	30 St. = 90 m

PU 90 A blue green

Food FDA / EC compliant



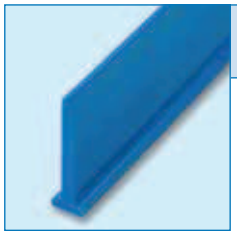
approx. 92° Shore A

FDA/EC-conform

Order No.	Height (mm) H	Height (inch) H	Foot width (mm) B	Weight (g/m)	Standard length per piece (m)	Standard Roll
FBCJ020LG	20,00	0,79	10,0	75,00	3,0	80 St. = 240 m
FBCJ030LG	30,00	1,18	10,0	109,00	3,0	60 St. = 180 m
FBCJ040LG	40,00	1,57	10,0	129,00	3,0	40 St. = 120 m
FBCJ050LG	50,00	2,00	10,0	235,00	3,0	40 St. = 120 m
FBCJ060LG	60,00	2,40	10,0	280,00	3,0	30 St. = 90 m

PU 90 A sky blue

Food FDA / EC compliant



approx. 92° Shore A

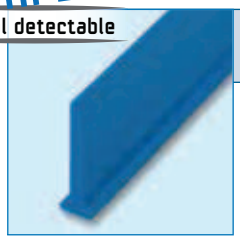
FDA/EC-conform

Order No.	Height (mm) H	Height (inch) H	Foot width (mm) B	Weight (g/m)	Standard length per piece (m)	Standard Roll
FBCJ020L	20,00	0,79	10,0	75,00	3,0	80 St. = 240 m
FBCJ030L	30,00	1,18	10,0	109,00	3,0	60 St. = 180 m
FBCJ040L	40,00	1,57	10,0	129,00	3,0	40 St. = 120 m
FBCJ050L	50,00	2,00	10,0	235,00	3,0	40 St. = 120 m
FBCJ060L	60,00	2,40	10,0	280,00	3,0	30 St. = 90 m

SAFE
Metal detectable

PU 90 A SAFE capri blue

Food FDA / EC compliant



approx. 92° Shore A

FDA/EC-conform

Order No.	Height (mm) H	Height (inch) H	Foot width (mm) B	Weight (g/m)	Standard length per piece (m)	Standard Roll
FBCJ020LC	20,00	0,79	10,0	75,00	3,0	80 St. = 240 m
FBCJ030LC	30,00	1,18	10,0	109,00	3,0	60 St. = 180 m
FBCJ040LC	40,00	1,57	10,0	129,00	3,0	40 St. = 120 m
FBCJ050LC	50,00	2,00	10,0	235,00	3,0	40 St. = 120 m
FBCJ060LC	60,00	2,40	10,0	280,00	3,0	30 St. = 90 m

PU Flex sidewalls

BEHAbelt PU Flex sidewalls can be used as an accessory to flat belts in any conveying system where loose material has to be transported.

Advantages:

- Extremely flexible, very good abrasion and cut resistance
- Easy to handle, excellent welding characteristics for welding on PU and PVC belts (using hot air or binding cement)
- Approved for the food industry according to FDA/EC
- Application area: Horizontal transportation. High-angle or corner transport system with up to 80° inclination when fitted with cleats
- Standard coil size: 100 m on wooden drums

Shore 85 A

approx. 85° Shore A

FDA/EC-conform

PU 80 A white

Food FDA / EC compliant

Order No.	Height (mm) H	Height (inch) H	Wave width (mm) B	Base width (mm) B1	Pitch of waves (mm) A	approx. Weight (g/m)	Standard Roll (m)	Min.pulley diameter ∅ (mm)	Recomm. pulley ∅ (mm)
FBVFH020W	20,00	0,79	23,00	32,00	25,40	174	100	35	70
FBVFH030W	30,00	1,18	23,00	32,00	25,40	220	100	55	80
FBVFH040W	40,00	1,57	23,00	32,00	25,40	265	100	75	90
FBVFH050W	50,00	1,97	23,00	32,00	25,40	310	100	80	100
FBVFH060W	60,00	2,36	45,00	55,00	50,80	445	100	90	110
FBVFH080W	80,00	3,15	45,00	55,00	50,80	544	100	125	130
FBVFH100W	100,00	3,94	45,00	55,00	50,80	642	100	155	160
FBVFH120W	120,00	4,72	45,00	55,00	50,80	741	100	170	185

approx. 85° Shore A

FDA/EC-conform

PU 80 A green

Food FDA / EC compliant

Order No.	Height (mm) H	Height (inch) H	Wave width (mm) B	Base width (mm) B1	Pitch of waves (mm) A	approx. Weight (g/m)	Standard Roll (m)	Minpulley diameter ∅ (mm)	Recomm. pulley ∅ (mm)
FBVFH020G	20,00	0,79	23,00	32,00	25,40	174	100	35	70
FBVFH030G	30,00	1,18	23,00	32,00	25,40	220	100	55	80
FBVFH040G	40,00	1,57	23,00	32,00	25,40	265	100	75	90
FBVFH050G	50,00	1,97	23,00	32,00	25,40	310	100	80	100
FBVFH060G	60,00	2,36	45,00	55,00	50,80	445	100	90	110
FBVFH080G	80,00	3,15	45,00	55,00	50,80	544	100	125	130
FBVFH100G	100,00	3,94	45,00	55,00	50,80	642	100	155	160
FBVFH120G	120,00	4,72	45,00	55,00	50,80	741	100	170	185

PU 80 A sky blue

Food FDA / EC compliant

approx. 85° Shore A

FDA/EC-conform

Order No.	Height (mm) H	Height (inch) H	Wave width (mm) B	Base width (mm) B1	Pitch of waves (mm) A	approx. Weight (g/m)	Standard Roll (m)	Min.pulley diameter ∅ (mm)	Recomm. pulley ∅ (mm)
FBVFH020L	20,00	0,79	23,00	32,00	25,40	174	100	35	70
FBVFH030L	30,00	1,18	23,00	32,00	25,40	220	100	55	80
FBVFH040L	40,00	1,57	23,00	32,00	25,40	265	100	75	90
FBVFH050L	50,00	1,97	23,00	32,00	25,40	310	100	80	100
FBVFH060L	60,00	2,36	45,00	55,00	50,80	445	100	90	110
FBVFH080L	80,00	3,15	45,00	55,00	50,80	544	100	125	130
FBVFH100L	100,00	3,94	45,00	55,00	50,80	642	100	155	160
FBVFH120L	120,00	4,72	45,00	55,00	50,80	741	100	170	185

PU 80 A blue green

Food FDA / EC compliant

approx. 85° Shore A

FDA/EC-conform

Order No.	Height (mm) H	Height (inch) H	Wave width (mm) B	Base width (mm) B1	Pitch of waves (mm) A	approx. Weight (g/m)	Standard Roll (m)	Min.pulley diameter ∅ (mm)	Recomm. pulley ∅ (mm)
FBVFH020LG	20,00	0,79	23,00	32,00	25,40	174	100	35	70
FBVFH030LG	30,00	1,18	23,00	32,00	25,40	220	100	55	80
FBVFH040LG	40,00	1,57	23,00	32,00	25,40	265	100	75	90
FBVFH050LG	50,00	1,97	23,00	32,00	25,40	310	100	80	100
FBVFH060LG	60,00	2,36	45,00	55,00	50,80	445	100	90	110
FBVFH080LG	80,00	3,15	45,00	55,00	50,80	544	100	125	130
FBVFH100LG	100,00	3,94	45,00	55,00	50,80	642	100	155	160
FBVFH120LG	120,00	4,72	45,00	55,00	50,80	741	100	170	185

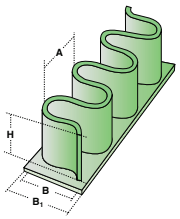
SAFE
Metal detectable

PU 80 A SAFE capri blue

Food FDA / EC compliant

approx. 85° Shore A

FDA/EC-conform



Order No.	Height (mm) H	Height (inch) H	Wave width (mm) B	Base width (mm) B1	Pitch of waves (mm) A	approx. Weight (g/m)	Standard Roll (m)	Min.pulley diameter ∅ (mm)	Recomm. pulley ∅ (mm)
FBVFH020LA	20,00	0,79	23,00	32,00	25,40	174	100	35	70
FBVFH030LA	30,00	1,18	23,00	32,00	25,40	220	100	55	80
FBVFH040LA	40,00	1,57	23,00	32,00	25,40	265	100	75	90
FBVFH050LA	50,00	1,97	23,00	32,00	25,40	310	100	80	100
FBVFH060LA	60,00	2,36	45,00	55,00	50,80	445	100	90	110
FBVFH080LA	80,00	3,15	45,00	55,00	50,80	544	100	125	130
FBVFH100LA	100,00	3,94	45,00	55,00	50,80	642	100	155	160
FBVFH120LA	120,00	4,72	45,00	55,00	50,80	741	100	170	185


Puls

BEHAbelt
Made in Germany

Our welding tools are especially designed for on-site installations and service - quick, compact and mobile

EErgo welding tool

EErgo welding tool for PU and TPE profiles

Available from Q2 2013

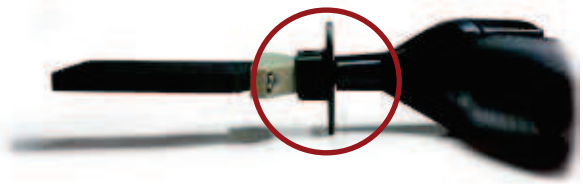
PATENT pending

The first welding tool especially developed for joining of PU and TPE profile.
With the optimized ergonomics, super-fast heat-up time and integrated stand to avoid burns and potential risk of fire, this is the tool of the future for butt welding of thermoplastic belting materials.

Heating-up time less than 2 minutes!

The EErgo reaches optimal joining temperature within less than 2 minutes after switching on. This saves precioUos minutes in case of a shutdown.

Built in stand:

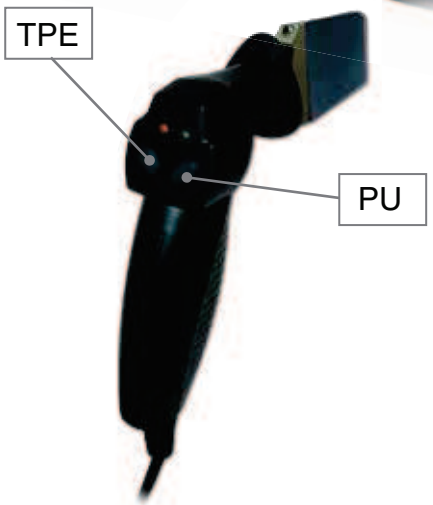


The EErgo can be placed on flat work surfaces without the hot paddle burning surfaces, causing skin burns and therefore eliminating a source of danger. How many can say that they haven‘t burned themselves while joining a belt with a paddle?

Ergonomic design:

Due to the special design and the ergonomic handle the EErgo can be held in the hand without the usual twists during the joining procedure and can be held stable and guided safely to achieve an optimum result.

Innovative handling and display:



The temperatures are controlled for PU and TPE – always the optimum temperature for an optimum joint. Conventional joining paddles can be too hot or not hot enough. In either case the quality of the joint is reduced.

You can select either PU or TPE and the corresponding LED shows when the paddle has reached optimum welding temperatures.

Order information refer to page 85

EErgo welding set

EErgo welding tool

- EErgo welding tool
- Carrying bag

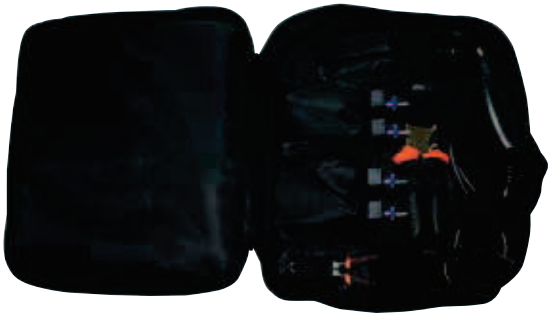
Description	Order No.
230 V	FBWEE001
115 V	FBWEE005

Welding kit for small profiles

Professional welding set for small profiles:
round belts up to 10mm and V-belts
up to profile 10x6 (Z)

- EErgo paddle welding tool
- Carrying bag
- Edge cutter SE02
- Scissors AS02 with stop
- 2 pcs. guide clamps FZ01

Description	Order No.
230 V	FBWEE003
115 V	FBWEE006

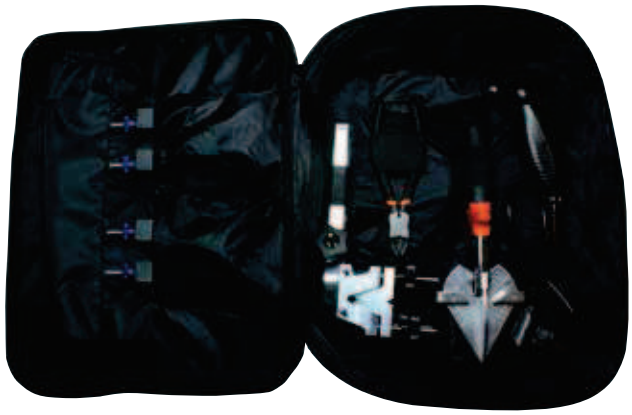


Welding kit universal

Professional welding set for small and big profiles:
round belts all sizes and
V-belts up to profile 32 (D)

- EErgo paddle welding tool
- Carrying bag
- Edge cutter SE02
- Scissors AS04 with stop
- 2 pcs. clamp guides FZ01
- 1 pc. clamp guide FZ02/03

Description	Order No.
230 V	FBWEE004
115 V	FBWEE007



Multi TC welding tool for PU and TPE profiles

The BEHAbelt Multi TC welding tool is the proven welding tool for Polyurethane and Polyester profiles on the market that ensures a constant welding temperature through continuous temperature control. With the BEHAbelt Multi TC a high welding security is guaranteed.

Features at a glance:

- Easy and safe handling
- Very fast heating-up period
- LED display for display of optimum welding temperature
- Small, hand and robust
- With two temperature ranges: for Polyurethane and Polyester
- Continuous welding temperature through temperature control even at long-term operation
- Teflon coated welding paddle
- Easy cleaning with cloth

Result:

- Minimization ofwelding errors and breakdown time through safe, secure and fast welding of PU and TPE profiles.

➜ Your choice for non-reinforced Polyurethane and Polyester profiles!

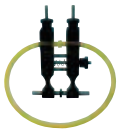
Scope of delivery:

- Multi TC welding tool **refer to page 85**

Description	Order No.
Multi TC 230 V ~ 50/60 Hz	**FBWMTC230**

Corresponding accessories:

- Guide clamp FZ01



refer to page 86

- Guide clamp FZ02/3

refer to page 86

Polyurethan PU 290 °C
Polyester TPE 240 °C

The top-selling welding paddle worldwide!

BEHAbelt
Made in Germany

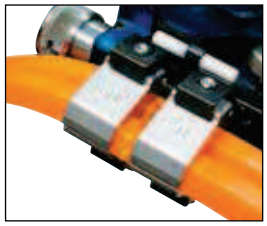
Perfect splice within seconds!

The patented Friction welding machine RS02 for Polyurethane profiles eliminates downtime with a perfect splice every time!

Features at a glance:

- User-friendly and easy handling
- No long heating-up and set-up times, spliced within seconds
- Precise pressure and automatical O-positioning prevents uneven welds and premature failure
- Automatic alignment ensures that the belt ends are aligned perfectly
- Temperature variation is never a concern (no guess-work)
- Without the risk of injury or fire due to hot metal
- Due to its small size the RS02 press can be used in confined spaces
- Thanks to its exchangeable jaws the RS02 is suitable for splicing many different profiles made of Polyurethane

Application movie on **www.behabelt.com**



Standard jaws:

- For round belts from Ø 6 mm to 20 mm
- For V-belts from Ø 6 x 4 mm to 22 x 14 mm
- For various special profiles available

for round belts

for V-belts

for various special profiles

Result:

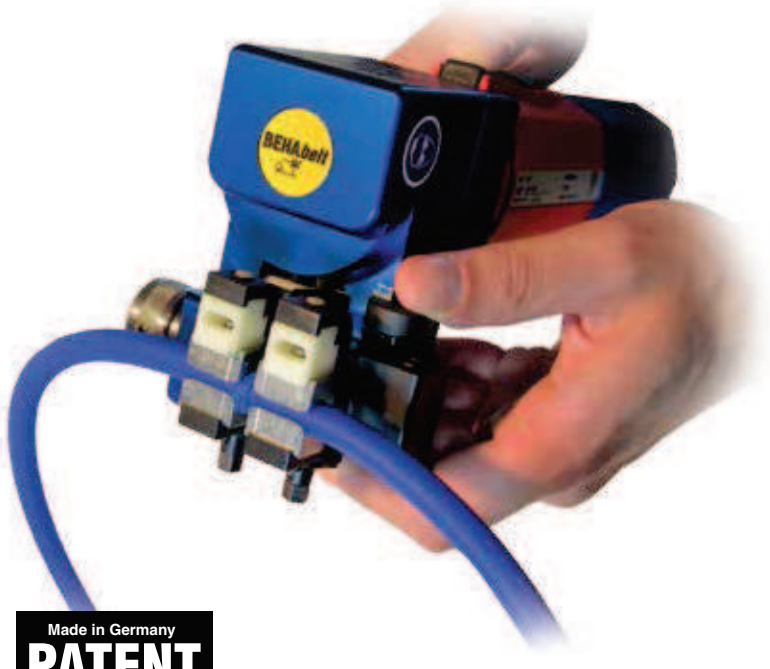
- The RS02 Friction welding machine is the perfect solution for fast and perfect joining of Polyurethane profiles

➜ Avoid belt failure and expensive break-down time with the unique RS02 Friction welder!

Scope of delivery:

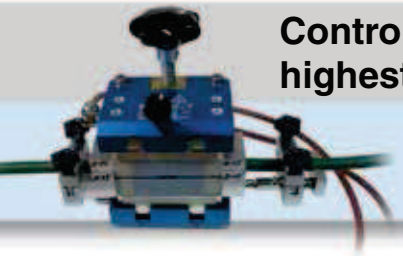
- 1 pc. Friction welding machine RS02
- 1 set of standard profile jaws at your choice
- 1 pc. Allen key
- 1 pc. Scissors AS02
- 1 pc. Edge cutter SE02
- 1 pc. Carrying bag with durable and predective foam inlay

Description	Order No.
230 Volt Variante:	**FBWRS022230**
115 Volt Variante:	**FBWRS022115**



Made in Germany
PATENT

HP01 Hotpress



Controller guided „on-site“ hotpress for highest welding security

The use of the unique BEHAbelt HP01 hotpress ist the best and most secure technology for welding plastic profiles, flat belts and timing belts up to a width of 50 mm.

Features at a glance:

- Very easy to use
- Reduces operator errors through a fully automatic and controlled welding and vulcanization process
- Thanks to its exchangeable moulds the HP01 is suitable for splicing many different profiles and flat belts made of PU and TPE as well as timing belts
- User friendly operation through self-explanatory menu of controller (no expertise required)
- Perfect welding within minutes
- Temperature variation is never a concern (no guesswork)
- Real time data logging & diagnostics function for quality assurance of the splice
- Storage and change of welding recipes within seconds (200 recipes)
- Different types of welds possible **(overlap welds, butt welds and angle welds)**
- Due to its small size and the hook for hanging up the press during the welding process, the HP01 can be used in confined spaces “on-site“
- **Best welding solution for reinforced profiles (aramid, polyester and steel) through overlap welding Available with air or water cooling**

Result:

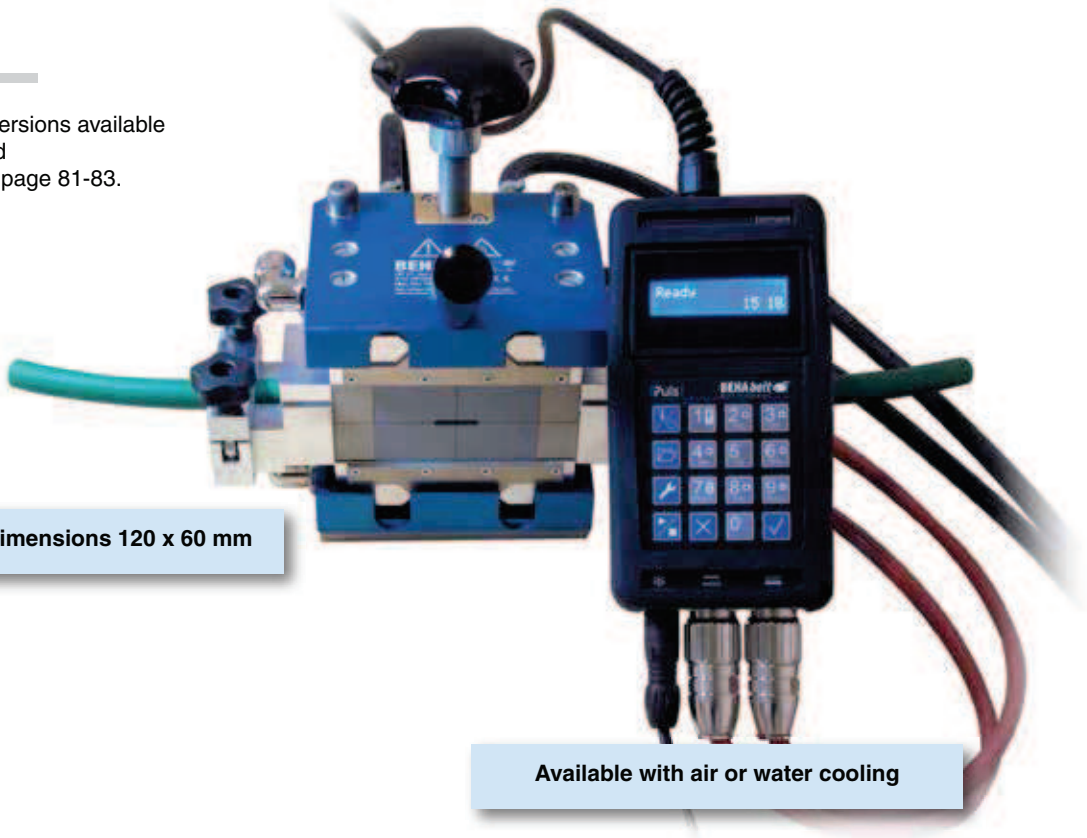
- The HP01 hotpress makes a perfect splice every time, on every site!

➜Your choice for reinforced profiles, profiles made of Polyester, flat belts, special profiles and timing belts!

Scope of delivery:

- Both water and air cooled versions available
- For the different models and accessories please refer to page 81-83.

Application movie on **www.behabelt.com**



Heating platen dimensions 120 x 60 mm

Available with air or water cooling

BEHAbelt
Made in Germany

Set HP01 Hotpress with water cooling

Complete HP01 set with water cooling and handy aluminium carrying box.

Scope of delivery:

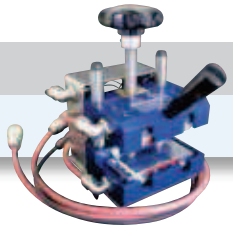
Standard-Version:
- Hotpress HP01 with water cooling
- Controller HP01
- Cooling unit with pump 6,4 l
- Edge cutter SE02
- Screw driver
- Scissors AS04
- Aluminium case

Xpert-Version:
- Hotpress HP01 with water cooling
- Controller HP01 Xpert
- Cooling unit with pump 6,4 l
- Edge cutter SE02
- Screw driver
- Scissors AS04
- Software for data logging
- Aluminium case

Moulds available separately

Description	Order No.
Standard Set HP01/Water cooling/230 Volt	**FBWHP011W230**
Xpert Set HP01/Water cooling/230 Volt	**FBWHP011W23X**
Standard Set HP01/Water cooling/115 Volt	**FBWHP011W115**
Xpert Set HP01/Water cooling/115 Volt	**FBWHP011W15X**

Shaft for HP01 to use with torque wrench available as accessory
FBWHPSD12



Set HP01 Hotpress with air cooling

Complete HP01 set with air cooling and handy aluminium carrying box.

Scope of delivery:

Standard-Version:
- Hotpress HP01 with air cooling
- Controller HP01
- Edge cutter SE02
- Screw driver
- Scissors AS04
- Aluminium case

Xpert-Version:
- Hotpress HP01 with air cooling
- Controller HP01
- Edge cutter SE02
- Screw driver
- Scissors AS04
- Software for data logging
- Aluminium case

Moulds available separately

Description	Order No.
Standard Set HP01/Air cooling/230 Volt	**FBWHP011L230**
Xpert Set HP01/Air cooling/230 Volt	**FBWHP011L23X**
Standard Set HP01/Air cooling/115 Volt	**FBWHP011L115**
Xpert Set HP01/Air cooling/115 Volt	**FBWHP011L15X**

Shaft for HP01 to use with torque wrench available as accessory
FBWHPSD12

Standard moulds for HP01 Hotpress

Standard moulds for PU and TPE Round- and V-belts

Standard moulds:

Order No.	Description
FBWFS060	Standard mould HP01 for round belts ∅ 6,0mm
FBWFS063	Standard mould HP01 for round belts ∅ 6,3mm
FBWFS070	Standard mould HP01 for round belts ∅ 7,0mm
FBWFS080	Standard mould HP01 for round belts ∅ 8,0mm
FBWFS095	Standard mould HP01 for round belts ∅ 9,5mm
FBWFS100	Standard mould HP01 for round belts ∅ 10,0mm
FBWFS120	Standard mould HP01 for round belts ∅ 12,0mm
FBWFS125	Standard mould HP01 for round belts ∅ 12,5mm
FBWFS150	Standard mould HP01 for round belts ∅ 15,0mm
FBWFS180	Standard mould HP01 for round belts ∅ 18,0mm
FBWFS200	Standard mould HP01 for round belts ∅ 20,0mm
FBWFS130X080	Standard mould HP01 for V-belts 13x8mm
FBWFS170X110	Standard mould HP01 for V-belts 17x11mm
FBWFS220X140	Standard mould HP01 for V-belts 22x14mm
FBWFS170X113	Standard mould HP01 for V-belts 17x11,3mm BLUEPOWER

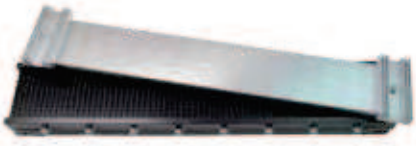
Special moulds on request

Timing belt moulds for HP01 Hotpress

Standart moulds for PU timing belts (max. width up to 50 mm)

Timing belt moulds

Order No.	Description
FBWFZHTD5MN	Timing belt mould HTD5 B:50mm
FBWFZHTD8MN	Timing belt mould HTD8 B:50mm
FBWFZT5N	Timing belt mould T5 B:50mm
FBWFZT10N	Timing belt mould T10 B:50mm
FBWFZAT5N	Timing belt mould AT5 B:50mm
FBWFZAT10N	Timing belt mould AT10 B:50mm
FBWFZAT20N	Timing belt mould AT20 B:50mm
FBWFZHO	Timing belt mould H B:50,8mm/2“
FBWFZLO	Timing belt mould L B:50,8mm/2“
FBWFZRPP8MN	Timing belt mould RPP 8M B:50mm



Service punch for making finger punches of timing belts with aramid and steel reinforcement

Available on request

BEHAbelt
Made in Germany

Belt cutter for reinforced profiles

Designed to accurately cut and prepare reinforced profiles for overlap welding with the BEHAbelt HP01 hot press.

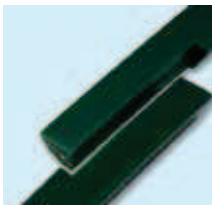
Delivery program:

Belt cutter for reinforced profiles
incl. one profile adapter of choice.

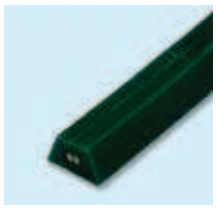
Adapters available for the following profiles:

- Round belts ∅ 6,0 - 20,0mm
- V-belts 13 x 8 (A), 17 x 11 (B), 22 x 14 (C), bluepower

Order No.	Description
FBWSH1	Belt cutter with one profile adapter of choice



Before overlap welding



Result after overlap welding

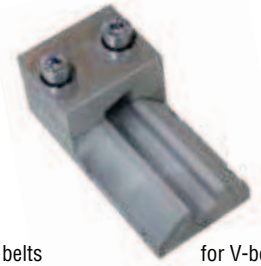
Profile adapters for round belts

FBWSH1R060	Profile adapter for round belts ∅ 6,0mm
FBWSH1R063	Profile adapter for round belts ∅ 6,3mm
FBWSH1R080	Profile adapter for round belts ∅ 8,0mm
FBWSH1R095	Profile adapter for round belts ∅ 9,5mm
FBWSH1R100	Profile adapter for round belts ∅ 10,0mm
FBWSH1R120	Profile adapter for round belts ∅ 12,0mm
FBWSH1R125	Profile adapter for round belts ∅ 12,5mm
FBWSH1R150	Profile adapter for round belts ∅ 15,0mm
FBWSH1R180	Profile adapter for round belts ∅ 18,0mm
FBWSH1R200	Profile adapter for round belts ∅ 20,0mm

Profile adapters for V-belts

FBWSH1K13	Profile adapter for V-belts 13x8 (A)
FBWSHSK17BP	Profile adapter for V-belts bluepower 16,35 x 11,3
FBWSH1K17	Profile adapter for V-belts 17x11 (B)
FBWSH1K22	Profile adapter for V-belts 22x14 (C)

for round belts



for V-belts

Joining Set RH-2 for HP 01

for belts with steel reinforcement

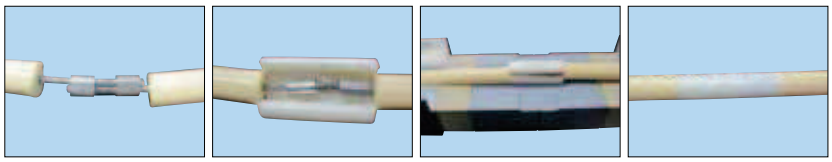
For crimping of belts with steel reinforcements

Scope of delivery:

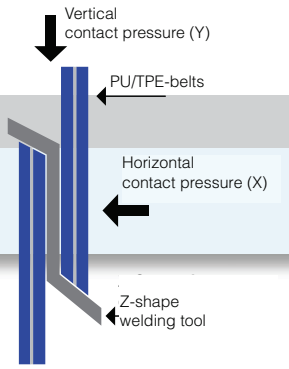
- 1 pc. carrying bag
- 1 pc. Crimping tool RH-2
- 30 pcs. Polyester sleeves à 8cm
- 100 pcs. AL crimps

Dimensions (W x H x D): 31 x 20 x 5 cm

Description	Order No.
Joining Set RH2	**FBWZRH2SET1**



Guide clamp set FZ03



The safe, fast and easy solution!

The guide clamp FZ03 is used for safe and accurate overlap welding of round and V-belts made of Polyurethane and Polyester.

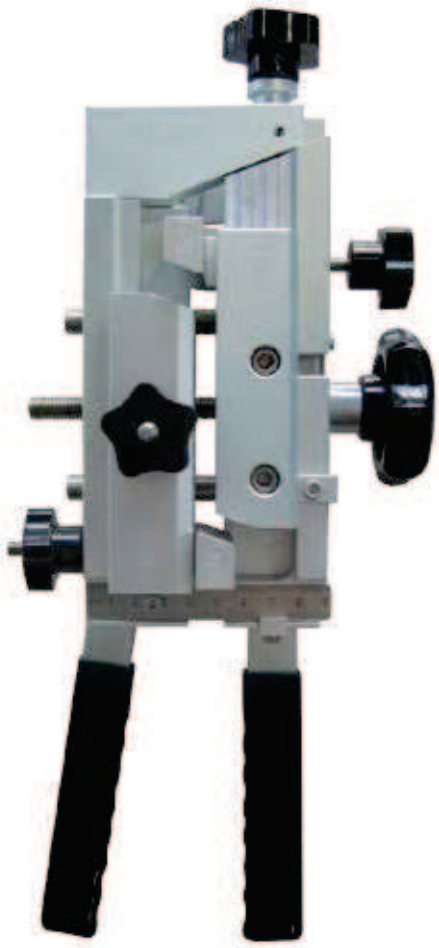
Features at a glance:

- Professional and safe overlap welding of Polyurethane and Polyester profiles
- Due to its small size the FZ03 clamp can be used in confined spaces
- With the handy FZ03-set you have all essential tools and accessories ready at your finger tips
- The unique design allows that the splice is compressed both in horizontal and vertical direction

Result

- Accurate and very strong joint

➜ Less failures due to breaking splices, as both vertical and horizontal contact pressure seales splice and thus avoids splices opening up!



Scope of delivery:

- 1 pc. Aluminium box
- 1 pc. Guide clamp FZ03
- 1 pc. Z-shape welding tool H15, 230 Volt or 115 Volt
- 1 pc. Scissors with movable stop AS04
- 1 pc. Edge cutter SE02
- 1 set of clamping pieces for round belts 8,0; 9,5; 10,0, 12,0; 12,5, 15,0 mm
- 1 set of clamping pieces for V-belts (A, B, C)

Order No.	Description
FZ03 set 230 V	FBWFZ03SET01
FZ03 set 115 V	FBWFZ03SET02

Welding paddles

EERGO welding tool

Available from Q2 2013

PATENT pending

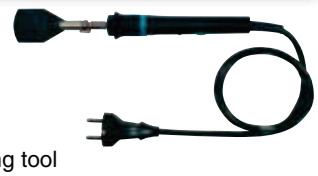
NEW

Temperature controlled welding tool
ergonomic & fast: for PU and TPE

Description	Order No.
EErgo 230 V	**FBWEE001**
EErgo 115 V	**FBWEE005**

Multi TC welding tool

Polyurethan PU 290 °C
Polyester TPE 240 °C



Temperature-controlled welding tool
for two temperature ranges:
PU 290 °C / Polyester 240 °C

Description	Order No.
Multi TC 230 V ~ 50/60 Hz	**FBWMTC230**

Multi TC welding tool Welding tools SG02 and SG03

Welding tool SG02
for Polyurethane (PU) 290 °C - 300 °C

Welding tool SG03
for Polyester (TPE) 215 °C - 240 °C

Description	Order No.
SG02 PU - 230 V	**FBWSG02**
SG03 TPE - 230 V	**FBWSG03**

Spare paddle for

Spare paddle for Multi TC

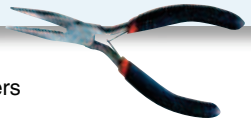
Spare paddle for SG02/03

Spare paddle for Eergo

Description	Order No.
Spare paddle Multi TC	**FBWMTC1**
Spare paddle SG02/03	**FBWTC72**
Spare paddle Eergo	**FBWEE002**

Pliers and fasteners

Pliers SZ01



Pliers SZ01 for inserting fasteners
in hollow round belts.

Description	Order No.
Pliers SZ01	**FBWSZ01**

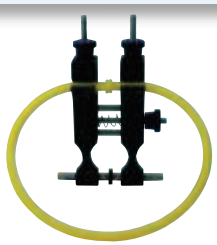
Fasteners for hollow round belts

Order No.	For hollow round belt (outer ∅)	
	mm	inch
FBN048	4,8	3/16
FBN063	6,3	1/4
FBN08N	8,0	5/16
FBN095	9,5	3/8
FBN0125	12,5	1/2
FBN0125	15,0	19/32

Guide clamps

Guide clamp FZ01

Handy and lightweight for
round belts up to ∅ 10 mm
and V-belts up to profile 10 (Z)



Description	Order No.
Guide clamp FZ01	**FBWFZ01**

Guide clamp FZ02/3

For 90°-welding

Robust and accurate
for V-belts up to profile 32 (D)
and round belts from ∅ 8 mm

Description	Order No.
Guide clamp FZ02/3	**FBWFZ02/3**

Scissors (standard)

Scissors AS02 with stop

For round belts
up to ∅ 12 mm

Description	Order No.
Scissors AS02	**FBWAS02**

Scissors AS03 with stop

For 90° cut and
angle cut

Description	Order No.
Scissors AS03	**FBWAS03**

Scissors and edge cutter (expert)

Scissors AS04 with stop

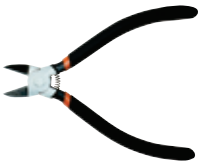
Scissors with movable angular stop

For 45°, 60°, 75°, 90°, 105°,
120° and 135°-cuts

Description	Order No.
Scissors AS04	**FBWAS04**

Edge cutter SE02

Ede cutter with special
blade to remove the
welding bead



Description	Order No.
Edge cutter SE02	**FBWSE02**

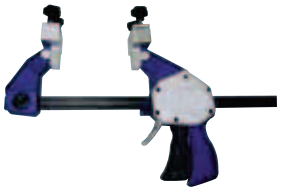
Belt tensioner and table fixture

Belt tensioner RSH01 & RSH02

Belt tensioner for tensioning
of round and V-belts

RSH01 450 mm (18“) clamp travel,
suitable up to approx. 3 m belt length

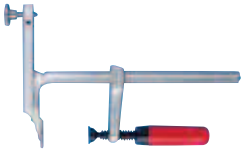
RSH02 900 mm (36“) clamp travel,
suitable up to approx. 9 m belt length



Description	Order No.
RSH01 (450 mm)	**FBWRSH01**
RSH02 (900 mm)	**FBWRSH02**

Table fixture TB02

For guide clamp FZ02/3



Description	Order No.
Table fixture TB02	**FBWTB02**

BEHAbelt
Made in Germany

Welding kit in carrying bag

for small profiles

You individually can equip the carrying bag set with tools of your choice, as below.

Scope of delivery:

- 1 pc. Nylon bag
- 2 pcs. guide clamps FZ01

Choose one:

- 1 pc. welding instrument SG02, SG03 or Multi TC
- 1 pc. edge cutter SE02 or scissors AS02
- Dimensions (W x H x D): 31 x 20 x 5 cm

Description
Welding kit and carrying bag

Order No.	Nylon bag	Welding tool **SG02** PU 290°C	Welding tool **SG03** PU 240°C	Welding too **Multi TC** 240°C/290°C TPE/TPU	**SE02** Edge cutter	**AS02** Scissors small	**2x FZ01** Guide clamp
FBWSGNR001	✔	✔			✔		✔
FBWSGNR002	✔	✔				✔	✔
FBWSGNR005	✔		✔		✔		✔
FBWSGNR006	✔		✔			✔	✔
FBWSGNR007	✔			✔		✔	✔
FBWSGNR008	✔			✔	✔		✔

*Individual equipment possible

Carrying bags (empty)

Description	Space for	Order No.
Carrying bag* small suitable for:	1 x EErgo or standard welding tool 2 x FZ01 guide clamp 1 x SE02 edge cutter 1 x AS02 scissors with stop	FBWCB2
Carrying big* small suitable for:	1 x EErgo or standard welding tool 1 x FZ02/3 guide clamp 1 x AS02 or AS03 or AS04 scissors with stop 1 x SE02 edge cutter 2 x FZ01 guide clamp or 1 x FZ01 and 1 x digital thermometer 6001 1 x temperature surface probe (type 115) or 1 x folding rule	FBWCB1

*Carrying bag will be delivered empty, without tools

Thermometer & temperature probes

Digital-Thermometer 6001

Measurement range
-50° C...1350° C/-50° F...1999° F

Description	Order No.
HDT Digital-Thermometer 6001	**FBW00006001D**

Temperature probe Type 115

Fast response surface probe
Measurement range: -0 °C…400 °C

Description	Order No.
Typ 115/9035	**FBW00009035D**

ThermStick 6201

Dig. Mini-Thermometer with
needle probe

Measurement range: -50 °C...250 °C

Description	Order No.
ThermStick 6201	**6201**

ThermStick 6202

Dig. Mini-Thermometer
with surface probe

Measurement range:-50 °C...250 °C

Description	Order No.
ThermStick 6202	**6202**

Tachometer

Digital Tachometer 8003

Digital Tachometer for optical
(contact-free) measurement of RPM

Measurement range: 10...99.999 RPM

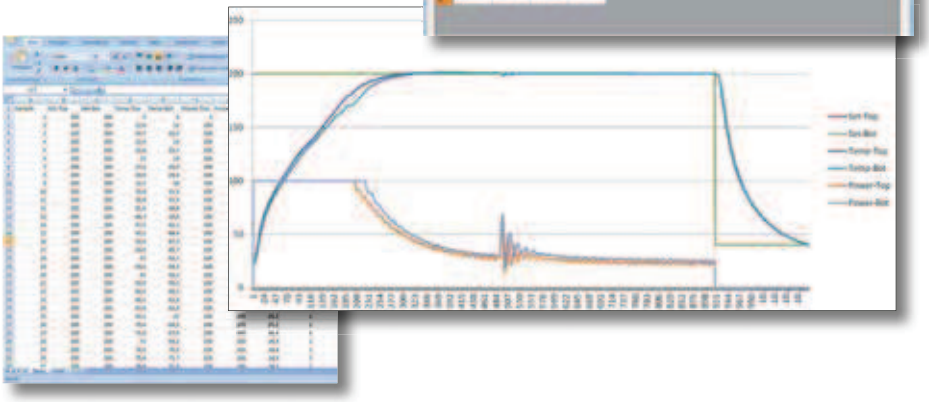
Description	Order No.
HDT Digital Tachometer	**8003**

BEHAbelt
Made in Germany

Multi-functional controllers for conveyor belt presses

Our PPuls Controllers are part of a vulcanizing and hotpress system, designed to replace standard large control cabinets. The main function is to control the vulcanizing cycle with platen temperatures and cycle time.

The compact size of the controller along with the broad functionality of the unit makes the PPULS controller a good option when replacing controllers on just about any press.

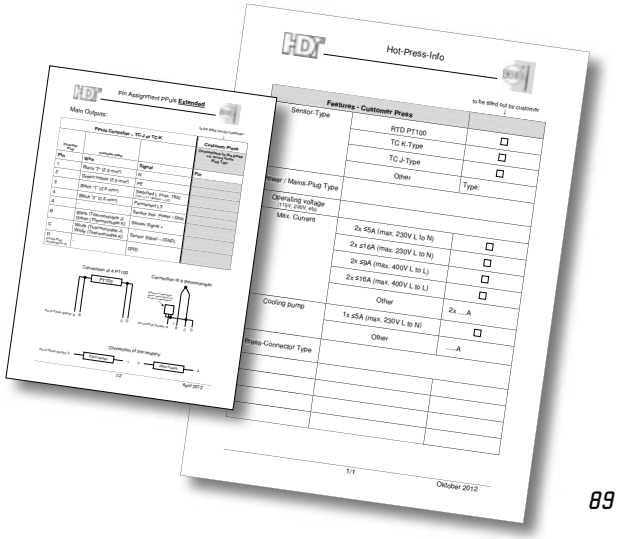


Advantages and Highlights

- Fully automated vulcanizing & cooling cycle for hot and vulcanizing presses
- PID-regulation for temperature control including control of maxium temperature difference between top and bottom platen
- Handy, compact and robust for on-site work
- User friendly operation with self-explanatory menu system (no expertise required)
- Memory storage for 200 different recipes
- Real-time data logging for process monitoring and proof to certify the splice (ISO 9001). Includes PC software to read out the data and to create and download recipes
- Various other functions depending on version (heating up in steps, failure diagnostics, multi langual, …)

Sounds interesting?

Please request our checklist to verify the technical data and possiblilty to use the controller with your press!



PPuls Controller

for hotpresses and vulcanizers

Advantages at a glance

- Easy handling and transportation through robust industrial design and small handheld size
- User friendly operation with self-explanatory menu system (no expertise) required
- Storage and change of welding recipes within seconds through integrated memory
- Fully automated vulcanizing & cooling cycle
- High flexibility for different power grids and presses
- Real time data logging & diagnostic functions (Xpert version)

PPuls Element

Fully automated welding process guarantees highest welding quality and leads to an increase of your productivity (110V & 230V)

Available as Standard and XPert version

PPuls Extended

Fully automated welding process guarantees highest welding quality and leads to an increase of your productivity (208V & 400V)

Available as Standard and XPert version

PPuls Relaisbox

Whereever operating voltages higher than 400 V are given, the PPuls Relaisbox is a robust solution in combination with good wheatherproof protection.

Model	Connection to the grid	Drawing socket	max. Current max. Performance	Max. Power*	Version	Comment
PPuls Element	Schuko 1PH		1 x 230V / 2 x 5A	2,3 KW @ 110V	Standard & Xpert	Small Presses
PPuls Element	NEMA L5-15 1PH		1 x 110V / 2 x 5A	1,1 KW @ 110V	Standard & Xpert	Small Presses
PPuls Extended	CEE 16A 3PH		3 x 400V / 2 x 9A	7,2 KW @ 400V	Standard & Xpert	lightweight and small for service use
PPuls Extended	CEE 32A 3PH		3 x 400V / 2 x 16A	8,8 KW @ 400V	Standard & Xpert	lightweight and small for service use
PPuls Extended	NEMA L6-30 1PH		1 x 208V / 2 x 15A	6,3 KW @ 208V	Standard & Xpert	lightweight and small for service use
PPuls Extended	NEMA L15-30 3PH		3 x 208V / 2 x 15A	6,3 KW @ 208V	Standard & Xpert	lightweight and small for service use
PPuls Relaisbox	CEE (16A, 32A), NEMA (L6-30, L15-30, L16-30), other types on request	depends on version	3 x 690V / 2 x 15A	20,7 KW @ 690V	Xpert	flexible for medium to large presses, robust design

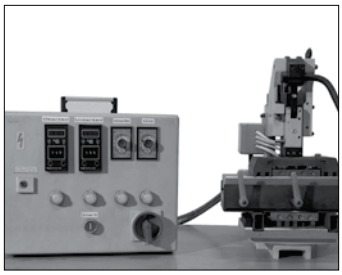
* Capacity for min. 60 minutes at 20°C temperature area

Especially developed for you!

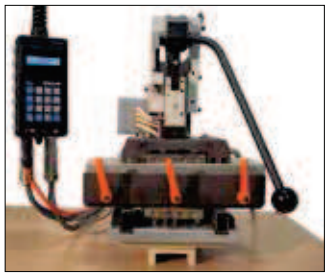
The company HDT-Electronic, member of the Beha-Group, offers controllers for vulcanizers as customized version.
If other technical requirements have to be observed or additional functions shall be given – please contact us!

We would be glad to advise you!

Before

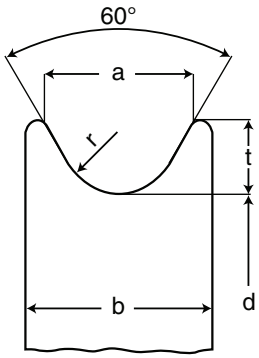


After



BEHAbelt
Made in Germany

Pulleys for round belts



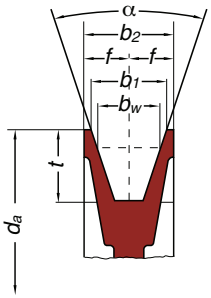
Recommended pulley dimensions – dimensions in mm

Belt ∅	2	3	4	4,8	5	6	6,3	7	8	9,5	10	12	12,5	15	18	20
a	4,5	5,5	7	8	8	10	10	11	12	14,5	15	18	18,5	23	28	30
b	6,5	8	10	12	12	14	14	15	16	19	19	22	23,0	27	32	36
t	2,5	3	3,5	4	4	5	5	5,5	6	7	7,5	9	9	12	14	15

Please select the appropriate minimum pulley diameter according to the different PU/Polyester qualities. The best qualified materials for pulleys are steel, high-alloyed steel, aluminum or Polyamid when it comes to plastic. Please keep in mind the low friction coefficient μ when using plastic material.

Pulleys for V-belts

Profile acc.to DIN 2215	6	8	10	13	17	22	32
Global Standard acc. to ISO 4184	Y	M	Z	A	B	C	D
Upper width b (mm)	6	8	10	13	17	22	32
Height h (mm)	4	5	6	8	11	14	20
Lower width u (mm)	3,3	4,55	5,9	7,5	9,4	12,35	18,25
Pulley angle α	∠ 36 - 38°						
Groove width b1	6	8	10	13	17	22	32
	→ depending on how much the profile should stick out above the upper pulley edge						
Groove depth t (mm)	h +1,0 to +1,5mm						



For BEHAbelt V-belts according to DIN 2215 / ISO 4184 pulleys for V-belts according to DIN 2217 / ISO 4183 have to be used.

NOTE

In the field it is common to see round belts being run in V-belt pulleys.
You need to know that this is not a perfect combination regarding geometry and that it is always recommended to use round belt pulleys instead.

The disadvantage of this “combination” is a typical wear in the belt flank where the belt is in contact with the pulley. There is also a risk that the round belt will be clamped by the V-shape of the pulley and thus stick in the V-shape. This often can lead to additional belt elongation causing the belt to skip or wobble. Under such conditions lifetime of the belt will always be reduced. If you decide to use V-belt pulleys anyhow please choose a V-belt pulley design that allows the round belt also to touch the bottom of the pulley groove to minimize problems.

Regarding selection of pulley material we recommend in general to use for the drive pulleys steel or aluminum to have good grip with the TPU/TPE belts. Then you have the best conditions to transmit maximum power to drive the belt. Please note that non-coated aluminum pulleys can lead to a discolouring of the belts. For supporting and deflection pulleys and supporting or guide rails we recommend using low friction materials like PE or HDPE to minimize friction.

Please refer also to page number 96 in our catalogue where you can find an overview table stating the coefficient of friction of TPU/TPE with various materials.

Pulley for round belts and V-belts

Drive pulley and deflection pulley

The drive pulley and deflection pulley should be designed according to DIN 2217 (refer to BEHAbelt recommendation page 92).

Please choose the minimum pulley diameters according to the values listed in tables. We have selected an appropriate shore hardness for conveying at slow speeds (one Meter per second). It is recommended to always place the drive pulley when possible at the head of the conveyor so the product is pulled through the system.

“What impact has the pulley diameter on the belt?”

The pulley diameter has a major impact on the lifetime of a belt. The minimum pulley diameters or larger as specified in this BEHAbelt delivery programme should be followed.

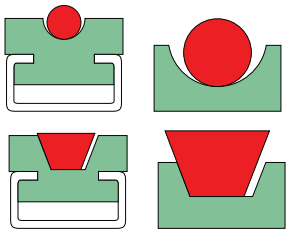
If the pulley diameter is too small this always reduces lifetime considerably due to resulting extreme bending cycles leading to early material fatigue. The specified minimum pulley diameters always refer to a 180° wrap. The wrap angle indicates by how many degrees the belt will be guided around the pulley and thus has contact with the pulley.

Guide rails and connectors

Guide rails and supporting rollers

Grooved pulleys, supporting rolls and guide rails are recommended to keep the belting in position to carry the load. When guiding V belts, the V belt groove should be designed so that the belt is being supported on the bottom of the groove and is only allowed to touch one side of the groove at a time to avoid jamming.

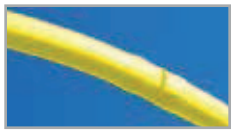
The diameter and number of the required supporting rolls depends on the length of the conveyor as well as on the weight and dimensions of the goods to be conveyed. Supporting guide rails with a smooth surface can be grooved to support transport belts. The dimensions of the groove are to be designed in a width that prevents the belt from jamming. The guiding rails should be made of materials with good sliding qualities (PE – HDPE). If you are looking for a supplier please contact us, we can give you a recommendation.



Fitting connectors for hollow round belts







Fitting connectors for quick repairs

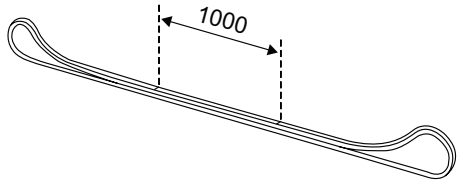
Hollow round belts should be welded just like solid belts. In the case of a breakdown, fitting connectors can be used for a quick repair, until the belt can be welded once again. Another advantage is the flexibility of the belt for small pulley diameters. The hollow round belts can be connected via metal connectors, as shown in the picture.

Hollow rounds belts with connectors can also be used in many applications when the belts are not subject to heavy loads or high speeds. In these cases this type of joining represents a good alternative to the welded joint (Make sure that the minimum pulley diameter and the pulley form are correct.) When applying the metal nipple, special care has to be taken not to damage the belt with the sharp metal edges. This would reduce the tensile strength of the joint. Therefore we recommend the use of pointed pliers.

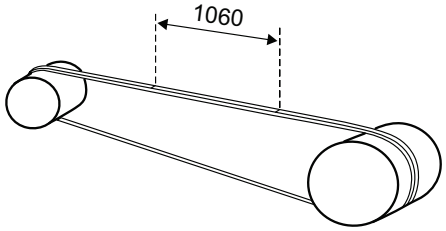
ATTENTION: Wear gloves, risk of injury

Pretension

Suitable pretension of TPU or TPE belts is required to ensure functional operation. We recommend pre-tensioning belts between 1 % and 8 % depending on the shore hardness of the belt and the length of the system.



Prior to joining the belt, place it on a flat surface and mark two lines 1000 mm apart (for shorter belts, the distance can be reduced to 100 mm)



Mount the belt on the pulleys and tension it to increase the distance between the two marks. Elongate the belt until the distance reaches the requested value according to the marks. At a pretension of e.g. 6%, the marks have to be 1060 mm apart.

„How does the pretension of a belt impact its lifetime?"

The proper pre-tensioning of the belt is just as critical for belt performance as selecting the right belt and the right splicing system. For the recommended pretension please refer to the product tables of each belt in this delivery program.

What are the effects of wrong pretension?
Too low pretension results in slippage of the belt which generates excessive heat. This causes belt deformation, heavy abrasion, breaking and jumping out of the pulley.

Too high pretension may cause damage to pulleys, shafts and bearings. The belt permanently is over-tensioned and will prematurely fail due to material fatigue and formation of cracks. Furthermore the belt loses its material resilience.

Tensioning devices

A variety of tensioning devices can be used to accommodate the different amounts of stretch in belts or to make the instillation process easier. In addition, for reinforced belts or belts with little pretension required, we recommend the use of tensioning devices permanently installed on the conveyor system. Please follow our recommended pretention for each belt to reduce premature wear and failure on our bearings.

Common ways to properly tension a belt are listed below:

- cut the belt to a shorter length than the measured length of the conveyor system
- use a take up pulley or a deflection pulley with a counter weight or a mechanical screw movement
- the drive motor is moved in slotted mounting holes via an adjustment screw
- tensioning sled (the drive motor is mounted on rails and is moved by its own weight or by a screw mechanism)
- tensioning jack (the motor with the drive pulley is mounted on a turnable rocker. If the drive motor is running in the specified direction the backwards engine torque tensiones the belt automatically)

The right positioning of tensioning pulleys is essential for the lifetime and functionality of a belt. The tensioning pulleys always should be located in the return strand right after the drive pulley.

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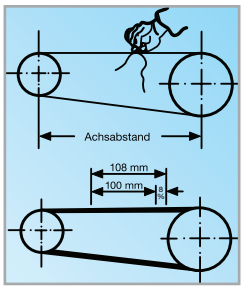
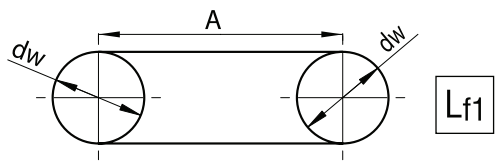


Working out the correct belt length

Use a string or steel tape to make measurements after reducing take-up (if installed) to the minimum. Distance between pulleys should remain fixed. To obtain good driving strength and good belt life, the belt pretension should be 1 to 8%, based on hardness and length of the belt. To verify pretension on an installed belt, apply two marks with a pen separated by 10 inches (or 100 mm) on the belt when it is free from tension. The increase of space between the marks after mounting the belt in tenths of an inch (or mm) provides a measure of the pretension in percent.

Calculation of belt length

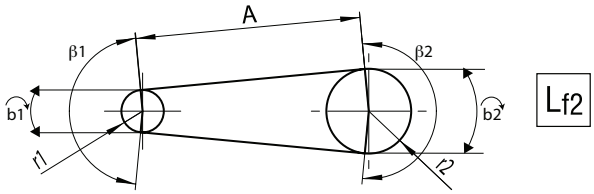


Calculation formula

$L_{f1} = dw \times \pi + 2 \times A$

dw = effective diameter (position of the neutral axxis of belt)
A= center distance
for round belts:
dw = bottom of groove + diameter of belt

The recommended pretension has to be considered in addition!



Calculation formula

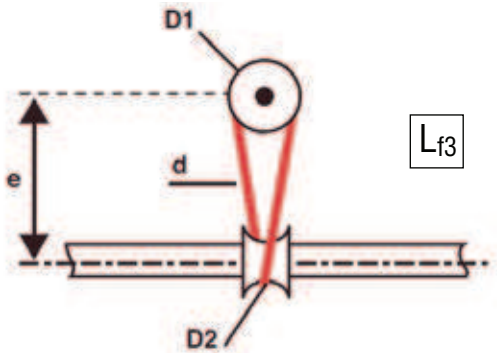
$L_{f2} = b1w + b2w + 2 \times A$

$b1w = \frac{\pi}{180°} \times r1w \times \beta1$

$b2w = \frac{\pi}{180°} \times r2w \times \beta2$

bw = radian measure at effective radius
rw = effective radius (position of the neutral axxis of belt)
A = center distance
for round belts:
rw = radius at bottom of groove + half belt diameter

The recommended pretension has to be considered in addition!



Calculation formula

Lineshaft Conveyor Belts (semi-crossed)

$L_{f3} = [(D1 + d) + (D2 + d)] \times \pi / 2 + 2 \times \sqrt{[(D1+d)^2 / 4 + e^2]}$

D1 : pulley diameter at bottom of groove
D2 : inner diameter of diabolo roller
d : diameter of belt
e : center distance

The recommended pretension has to be considered in addition!

Quick reference for V-Belts

Profile according to DIN 2215		6	8	10	13	17	22	32
Profile according to ISO 4184		Y	M	Z	A	B	C	D
Upper width b (mm)		6	8	10	13	17	22	32
Height h (mm)		4	5	6	8	11	14	20
Lower width u (mm)		3,3	4,55	5,9	7,5	9,4	12,35	18,25
Calculation of the belt length La and Lw if the inner length Li is determined or known	La = Li La = La	+25 +10	+31 +12	+38 +16	+50 +20	+69 +29	+88 +30	+126 +51
	Lw = Li Lw = La	+15 -10	+19 -12	+22 -16	+30 -20	+40 -29	+58 -30	+75 -51

Adhesion factors and profile dimensions

Coefficient of friction μ

Material type	Aluminium	Steel	Glass	Wood (veneer)	PE - Polyethylene	HDPE - high density polyethylene
PU 65 A	0,90	0,70	0,60	0,80	0,40	0,35
PU 75 A	0,85	0,70	0,50	0,70	0,40	0,35
PU 80 A	0,80	0,65	0,45	0,65	0,35	0,30
PU 85 A	0,75	0,60	0,40	0,60	0,30	0,25
PU 90 A	0,70	0,50	0,30	0,45	0,30	0,25
PU 95 A	0,65	0,45	0,25	0,40	0,25	0,20
Polyester TPE 40 D	0,70	0,50	0,30	0,45	0,30	0,25
Polyester TPE 55 D	0,45	0,35	0,30	0,35	0,15	0,10
Polyester TPE 63 D	0,45	0,35	0,30	0,35	0,15	0,10

Recommended max. belt speed

Recommended max. belt speed m/s	belts used as conveyor belt	belt used as drive belt
PU 75 A	1,5 m/s	10 m/s
PU 80 A	1,5 m/s	10 m/s
PU 85 A	2,0 m/s	15 m/s
PU 90 A	2,0 m/s	15 m/s
Polyester 55 D	2,5 m/s	20 m/s

Calculation:

$$v = \frac{dw \times n_1}{19100}$$

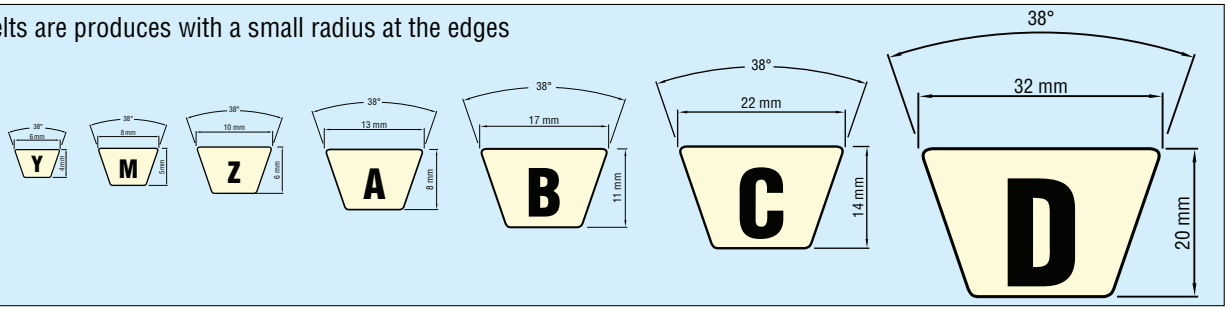
v = belt speed (m / s)

n_1 = speed of smaller pulley (min. –1)

dw = effective diameter of smaller pulley (mm)

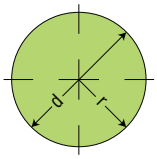
V-belt dimensions according to DIN 2215 and ISO 4184

All V-belts are produces with a small radius at the edges

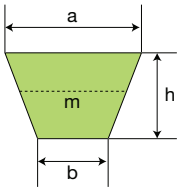


Profile acc.to ISO 4184		6	8	10	13	17	22	32
Weltstandard nach ISO		Y	M	Z	A	B	C	D
Upper width b (mm)		6	8	10	13	17	22	32
Height h (mm)		4	5	6	8	11	14	20
Lower width u (mm)		3,3	4,55	5,9	7,5	9,4	12,35	18,25

Calculation of the belt cross section:



$$A_{cm^2} = \frac{\pi}{4} \times d^2 \approx 0{,}785 \times d^2$$



$$A_{cm^2} = \frac{a+b}{2} \times h = m \times h$$

$$m = \frac{a+b}{2}$$

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Production tolerances BEHAbelt round- and V-belts

Description	Dimension mm	inch	Tolerance ≈ mm (inch)	
Round belts				
Type PU 75 A/80 A	∅ 2 - ∅ 8	(∅ 5/64 - 5/16)	± 0,2	(± 1/128)
Type PU 75 A/80 A	∅ 9 - ∅ 15	(∅ 45/128 - 19/32)	± 0,3	-
Type PU 85 A/90 A/95 A	∅ 2 - ∅ 8	(∅ 5/64 - 5/16)	± 0,2	(± 1/128)
Type PU 85 A/90 A/95 A	∅ 9 - ∅ 15	(∅ 45/128 - 19/32)	± 0,3	-
Type PU 85 A/90 A/95 A	∅ 18 - ∅ 20	(∅ 3/4 - 25/32)	± 0,5	(± 1/64)
Type Polyester TPE 40 D/55 D	∅ 3 - ∅ 8	(∅ 1/8 - 5/16)	± 0,2	(± 1/128)
Type Polyester TPE 40 D/55 D	∅ 9 - ∅ 15	(∅ 45/128 - 19/32)	± 0,3	-
Type Polyester TPE 63 D	∅ 6,3, ∅ 9,5, ∅ 12,5	(∅ 1/4 - 3/8 - 1/2)	± 0,3	-

Round belts can be produced on request in "-" or "+"-tolerance.

Description	Dimension mm	(ISO)	Tolerance ≈ mm	
V-belt DIN 2215			0-width	height
Type PU 65 A	6 - 8 - 10 - 13 - 17 - 22	(Y - M - Z - A - B - C)	– 0,5	+ 0,5
Type PU 75 A	6 - 8 - 10 - 13 - 17 - 22 - 32	(Y - M - Z - A - B - C - D)	– 0,5	+ 0,5
Type PU 80 A	6 - 8 - 10 - 13 - 17 - 22 - 32	(Y - M - Z - A - B - C - D)	– 0,5	+ 0,5
Type PU 85 A	6 - 8 - 10 - 13 - 17 - 22 - 32	(Y - M - Z - A - B - C - D)	– 0,5	+ 0,5
Type PU 90 A	8 - 10 - 13 - 17 - 22 - 32	(M - Z - A - B - C - D)	– 0,5	+ 0,5
Type Polyester TPE 40 D	8 - 10 - 13 - 17 - 22	(M - Z - A - B - C)	– 0,5	+ 0,5
Type Polyester TPE 55 D	8 - 10 - 13 - 17 - 22	(M - Z - A - B - C)	– 0,5	+ 0,5

Productions tolerances for tailoring

Production lengths (lf)	Production tolerance
150 - 1000 mm	± 2 mm
1001 - 4000 mm	± 3 mm
4001 - 10000 mm	± 5 mm
over 10000	± 10 mm

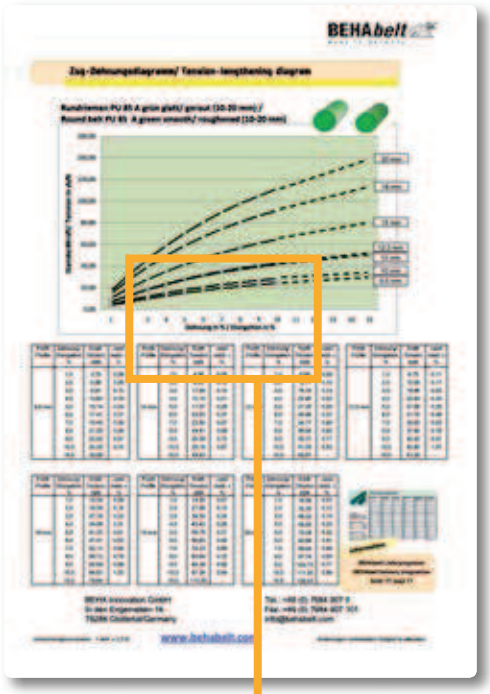
Contact customer service if more strict tolerances are required!

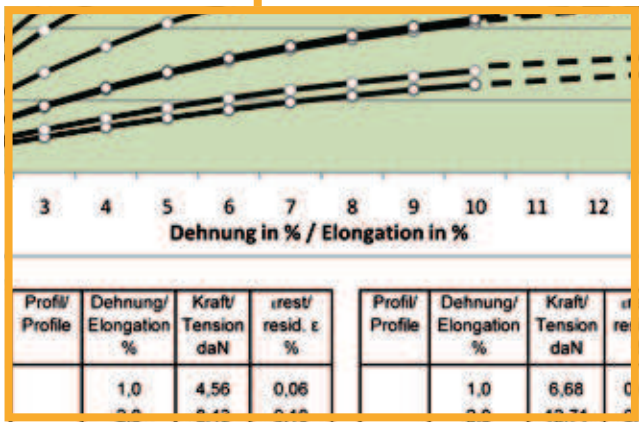
Technical data on tension-lengthening diagrams

available on request

The tension-lengthening diagrams for special calculations of belts are available for all BEHAbelt Round and V-belt qualities of our standard delivery range.

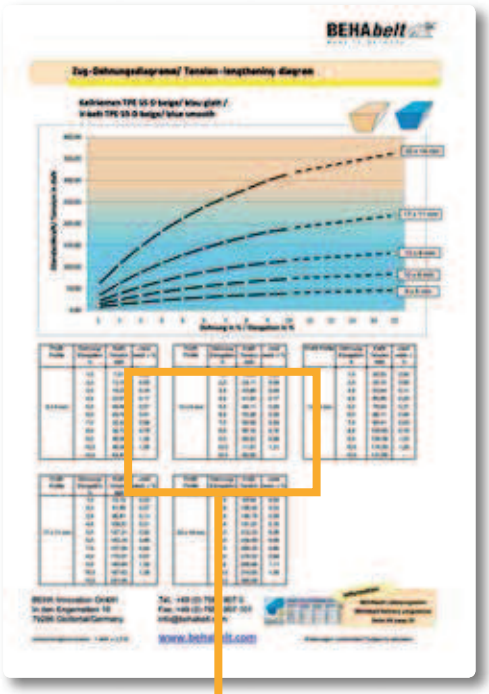
Example:
Round belt PU 85 A
(approx. 88° Shore A)





Profil/ Profile	Dehnung/ Elongation %	Kraft/ Tension daN	εrest/ resid. ε %	Profil/ Profile	Dehnung/ Elongation %	Kraft/ Tension daN	εr
	1,0	4,56	0,06		1,0	6,68	0

Example:
V-belt Polyester TPE 55 D
(approx. 100° Shore A)



0,02	10 x 6 mm	1,0	13,20	0,00
0,05		2,0	24,11	0,04
0,10		3,0	33,66	0,09
0,17		4,0	41,90	0,17
0,27		5,0	49,11	0,26
0,41		6,0	55,26	0,39
0,58		7,0	60,58	0,56
0,78		8,0	65,10	0,75
1,02		9,0	68,92	0,96
1,28		10,0	71,97	1,21
-		15,0	82,50	-

εrest/ resid. ε %	Profil/ Profile	Dehnung/ Elongation	Kraft/ Tension	εrest/ resid. ε %

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Product description		
Geometry		
Hardness		
Surface		
Colour		
Product properties		
Sample		
Other		Your sketch
Process description		
What is beeing done in the process?		
Product properties?		
What happens before this process?		
What happens after this process?		
Other		
Layout		
Diameter of pulley		
Angle of wrap		
Center distance		
Belt speed		
Support or guide for belt		
Tensioning device		
Transport load		
Number of belts		
Environmental conditions		
Chemical stress		
Cleaning		
Humidity/Water		
Ultraviolet radiation		
Ambient temperature		
Dirt		
Other		
Commercial		
Amount of product inquired		
Annual requirement		
Target price		
Standard coil length		
Packaging		
Other		

Also available as download: www.behabelt.com/images/Download/Checklisten/Technical_inquiry.pdf

LubeSite® Lubricator

Manual lubrication is subject to many variables. You have to set up a fixed schedule and stick to that schedule. It is easy to forget about the schedule when you are busy. When you manually lubricate your equipment you run the additional risk of applying too much or not enough lubrication. Too much lubrication will cause over heating of the bearings. Too little lubrication will make the bearings run dry. With the high cost of lube oil and high costs of repairs and labour, analysis have shown that it is possible to reduce the overall cost of operating your equipment by using automatic lubricators. A steady oil flow is applied only when the bearing drive is running and thus avoids running dry and over lubrication.

LubeSite® automatic lubricator is characterised by:

- NO over- or under lubrication of the bearing resulting in longer bearing life
- Cost savings both in labour and materials through longer lubricating Intervals
- Possibility to refill again with all lube oils (consistency 0...4 NLGI)
- Easy to maintain and environmentally-friendly construction
- Extensive program for nearly all applications

Application areas:

- Automotive industry
- Transport and aviation
- Car wash plant
- Wastewater treatment plant
- Feedingstuff production
- Fertiliser production
- Food industry
- Dairy production
- Printing plants
- Ceramic industry
- Paper manufactures
- Textile industry
- Wood industry
- Tobacco production
- Beverage production
- Mining industry
- Oil production
- Chemical plant
- Air conditioning systems
- Conveyor systems

Adaptor

LubeSite® lubricators can be used for all antifriction units or floating bearings.

The consistent lubrication of the bearing can be achieved by the spring pressure and the bevelled lengthwise slotted plunger.

A decreasing spring pressure on the aperture results in an increase at the plunger.

Because of the low pressure (below 0,7 bar), the lubricant only flows when the bearing moves.

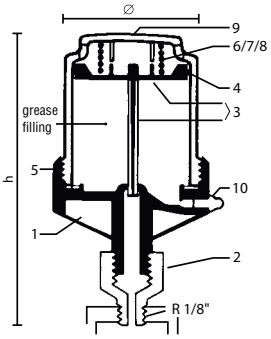
LubeSite® lubricators will help you lower your maintenance costs by replacing your manual lubrication with lubricators that can be refilled.

The refill interval depends on the application and bearing condition of each unit:

small (Type 202, 302, 502) 3:1;

medium (Type 205, 305, 505) 6:1;

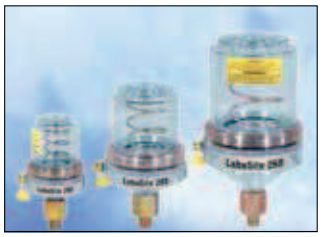
large (Type 260, 360, 560) 12:1.



1 Body 2 screwed plug
3 Plunger and rod
4 O-tRing 5 Plunger and rod
6 Low spring 7 Medium spring
8 Strong spring
9 Clear case 10 Grease fitting

LubeSite® automatic refill lubricators

Light construction



LubeSite®-Series 200

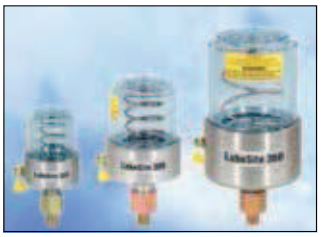
LubeSite® **202, 205 and 260** within the clear-sight cages are the standard lubricators for most bearing applications.

They only supply lube oil, when the bearing is moving and therefore protect the bearing from over and under lubrication.

Units are assembled with medium sized springs. Three additional light and heavy springs are each included in a box of ten. Model 260 is delivered in a single package with additional springs (light, heavy).

Area of operation: -25...+120° C

Heavy construction



LubeSite®-Series 300

LubeSite® **302**, **305** und **360** are designed for bearing housings which operate under static conditions, vibration and centrifugal forces. The strong metal castings compensate for the heavy loads.

The main application areas are eccentric presses, compactors, stone mills, construction machines, pumps, etc.

Units are delivered with medium sized springs. Three additional light and heavy springs each are included in a box of ten. Model 360 is delivered in a single package with additional springs (light, heavy).

Area of operation: -25...+120° C

For chemically aggressive media

LubeSite®-Series 500

LubeSite® **502**, **505** and **560** is resistant to aggressive chemical agents. The light metal cases are made of special nickel-chrome double platens. The seals are plated with chemical resistant VITON.

The 500 series is a tried and tested product for many years in the chemical, food and nuclear industry. Units are constructed with medium springs. Three additional light and heavy springs each are included in a box of ten.

Model 560 is delivered in a single package with additional springs (light, heavy)

Area of operation: -25...+120° C

For high temperatures

LubeSite® 704

LubeSite® 704 is the only automatic lubricator on the market, that can be used in ambient and high temperature applications. The case is made of light metal, the body is made of borosilicate glass, the pressure spring is made of high quality steel and the sealing is made of temperature consistent VITON.

LubeSite® 704 is used with best results within roller mills, plants, dehumidifiers, etc. Model 704 is delivered in a single package with one additional heavy spring.

Area of operation: -25...+230° C

Technical data LubeSite® springs

For further information please visit: www.behabelt.com




	low	medium	strong	extra strong
Type	**Spring resilience N tensioned/unstressed**			
202, 205, 206	26/13 N 30/15 N 84/42 N	40/20 N 44/22 N 130/65 N	54/27 N 72/36 N 140/70 N	98/49 N 90/45 N 156/78 N
302 305 360	26/13 N 30/15 N 84/42 N	40/20 N 44/22 N 130/65 N	54/27 N 72/36 N 140/70 N	98/49 N 90/45 N 156/78 N
302 305 360	26/13 N 30/15 N 84/42 N	40/20 N 44/22 N 130/65 N	54/27 N 72/36 N 140/70 N	98/49 N 90/45 N 156/78 N
704	–	80/40 N	158/79 N	–

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Your notes

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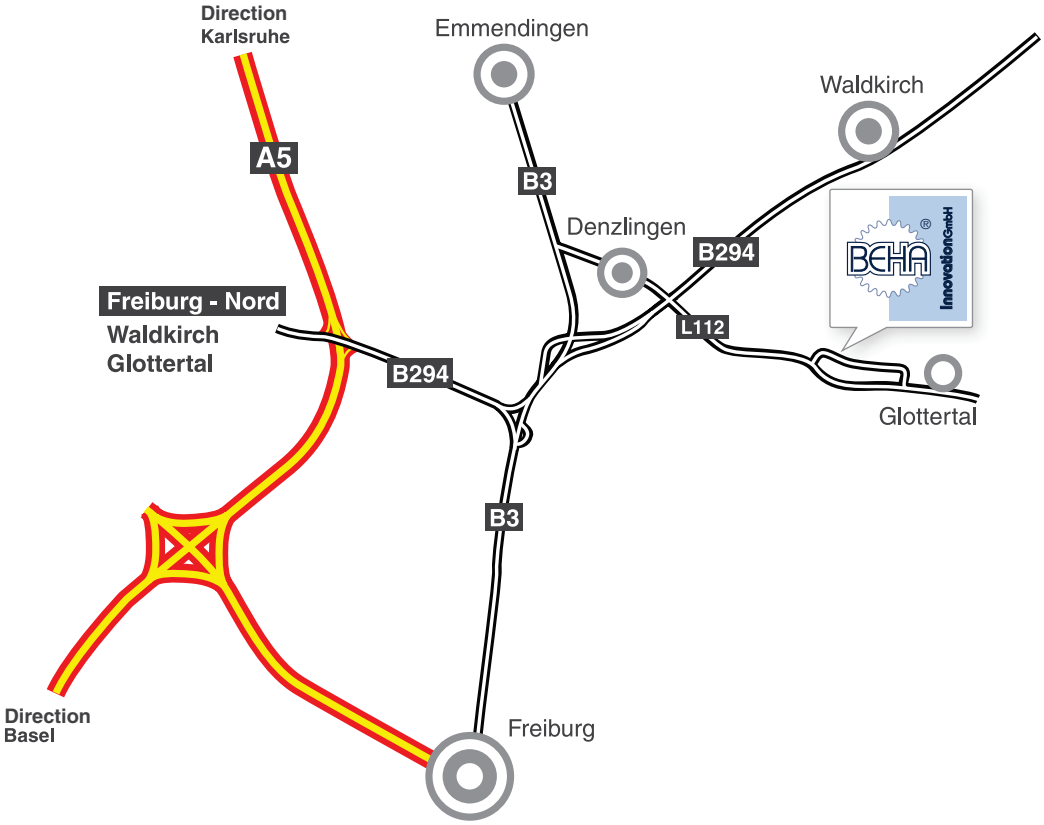
Access plan:



Belt finder

Profile	Dia-meter mm	PU 60 A (ca. 65° Shore A)	PU 65 A (ca. 72° Shore A)	PU 70 A (ca. 76° Shore A)	PU 75 A (ca. 80° Shore A)	PU 80 A (ca. 84° Shore A)	PU 85 A (ca. 88° Shore A)	PU 90 A (ca. 92° Shore A)	PU 95 A (ca. 98° Shore A)	TPE 40 D (ca. 92° Shore A)	TPE 55 D (ca. 100° Shore A)	TPE 63 D (ca. >100° Shore A)
Round belts smooth/ matt	2 - 20				P. 18, 19	P. 20 - 22	P. 23, 24	P. 28		P. 30	P. 30	
Round belts rough	2 - 20					P. 20	P. 24, 25					
Round belts smooth with reinforcement	6 - 20					P. 22	P. 26, 27	P. 29	P. 29		P. 31	P. 32
Round belts rough reinforced	6 - 20						P. 26, 27					
Hollow round belts smooth	4,8 - 15				P. 19		P. 25	P. 28				
Twisted round belts				P. 55	P. 55							
Hollow round belts rough	4,8 - 15						P. 25					
V-belts smooth/matt	6 x 4 (Y) - 32 x 20 (D)				P. 34	P. 35	P. 36, 37	P. 39		P. 40	P. 40	
V-belts reinforced	8 x 5 (M) - 32x 20 (D)				P. 34	P. 36	P. 38	P. 39			P. 40	
Supergrip					P. 34		P. 38					
Twin-V-belts	21 x 8 24 x 6,8 30 x 8				P. 42	P. 42						
Twin-V-belts reinforced	30 x 8 30 x 11						P. 42					
Ridge-top-V-belts	(A, B, C)				P. 43	P. 43	P. 44	P. 45		P. 45		
Ridge-top-V-belts reinforced	(B, C)				P. 43	P. 43	P. 44					

V-belts with vaulted top	8 x 5,5/6,5 17 x 11,3					P. 35	P. 37				P. 41	
Special profiles with chamfer	17 x 11,4										P. 41	
U-Profile, Square-Profil	18 x 11,8 11,8 x 11,8						P. 50					
T-Profile	10 x 4,5 15 x 5 20 x 8 25 x 5					P. 48, 49	P. 49	P. 49				
Prism V-belts „Cornbelt“						P. 50						
Ribbed V-belts	17 x 11 (B) 22 x 14 (C)					P. 36						

Homogeneous flat belts	Width: 700 Thickness: 1,6 - 3,0		P. 62		P. 62	P. 62			P. 63		P. 63	
Flat belts	Width: 140 Thickness: 1,0 - 5,0	P. 64	P. 64		P. 65	P. 66	P. 65					
Guiding and tracking profiles	6 x 4 (Y) - 22 x 14 (C)	P. 68		P. 68	P. 69		P. 69					
Cleats PU80A = feathered foot PU90A= narrow foot	20 - 60					P. 70		P. 71				
PU Flex sidewalls	20 - 120					P. 72, 73						

Reinforced Polyester, Aramid and Glass fiber PU available. Steel reinforced on request.

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