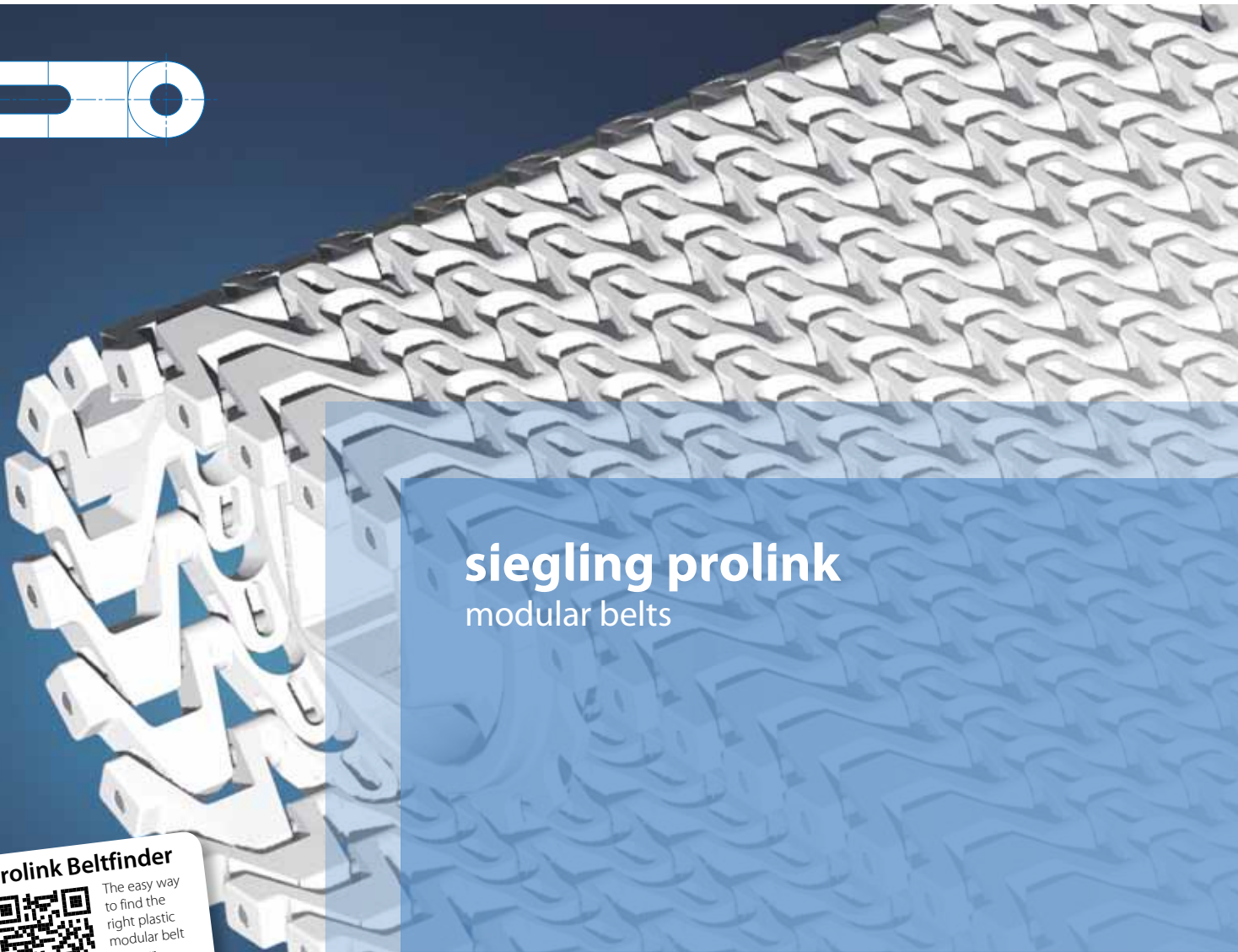


Product range

## Series 5

Pitch 25 mm (1 in)



**siegling prolink**  
modular belts

### Prolink Beltfinder

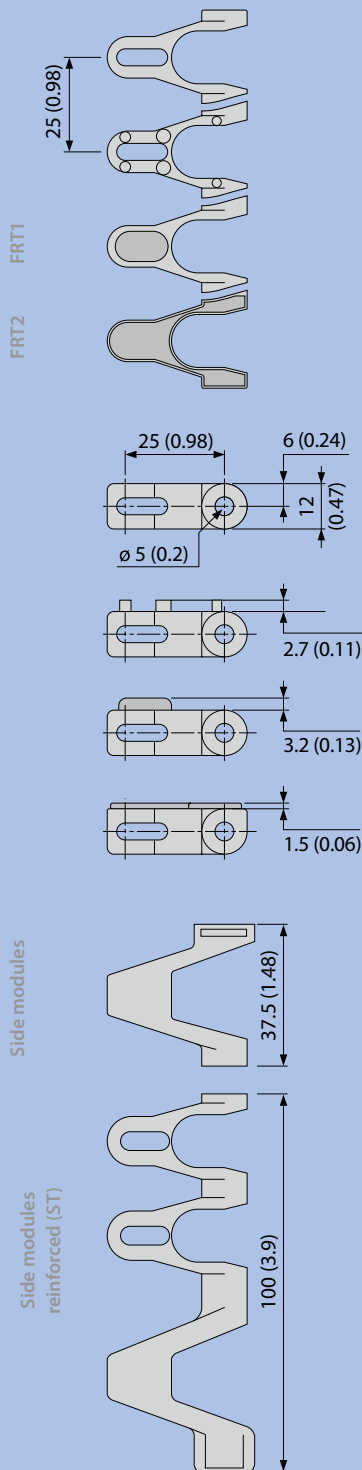
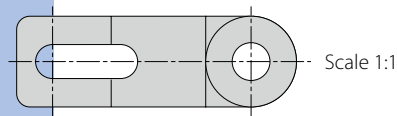


The easy way  
to find the  
right plastic  
modular belt  
for your  
conveyor.

[m.prolink-finder.com](https://m.prolink-finder.com)

# Series 5

Side flexing,  
pitch 25 mm (1 in)\*



Key dimensions in mm and inches (in), scale 1:2.

\* All imperial dimensions (inches) are rounded off.

\*\* Side modules only available without FRT-surface and without NTP-pattern.

**25 mm (1 in)\* pitch radius and spiral belt for light and medium-duty food and non-food applications.**

## Design characteristics

- suitable for both straight and radius conveying
- 45 % open area for excellent air circulation and drainage
- stainless steel hinge pins for high load capacity, lateral stiffness, fewer belt supports and minimum belt lifting in curves
- no potential belt edge catch points due to safe fixing of hinge pins

## Special features

- guided versions (G/RG) eliminate the need for C-profile guides and allows utilisation of the entire belt width
- nub top surface for increased grip and reduced contact area for good release
- integrated friction pads in two versions (raised or flat) increase surface friction and provide gentle grip. Minimum indent for S5 is 38 mm (1.5 in), for S5 RG it is 50 mm (2 in) and for S5 ST 75 mm (3 in)/100 mm (4 in)
- ST version with reinforced brick-laid side modules increases belt pull capacity

## Pitch

25 mm (1 in)

## Belt width min.

100 mm (3.9 in), 175 mm (6.9 in) for S5 ST

## Width increments

In increments of 25 mm (1 in)

## Hinge pins

Stainless steel (plastic pins can also be used for straight conveyors)

## Declaration of compliances/Certificates

See fold-out page

## Belt types

### S5-45 GRT

Open (45 %), lattice-shaped surface

### S5-45 NTP

Open (45 %), lattice-shaped surface with 2.7 mm (0.11 in) high round studs  
8 % contact area

**S5-39 FRT1:** Open (39 %), lattice-shaped surface with friction top, raised

**S5-33 FRT2:** Open (33 % for full FRT2 surface area), lattice-shaped surface with friction top, flat

### S5-45 GRT G\*\*

Open (45 %), lattice-shaped surface and hold-down tabs

### S5-45 GRT RG\*\*

Open (45 %), lattice-shaped surface and reversed hold-down tabs

### S5-45 GRT ST

Open (45 %), lattice-shaped surface. Reinforced version. Wide outer modules (75 mm/2.9 in and 100 mm/3.9 in)

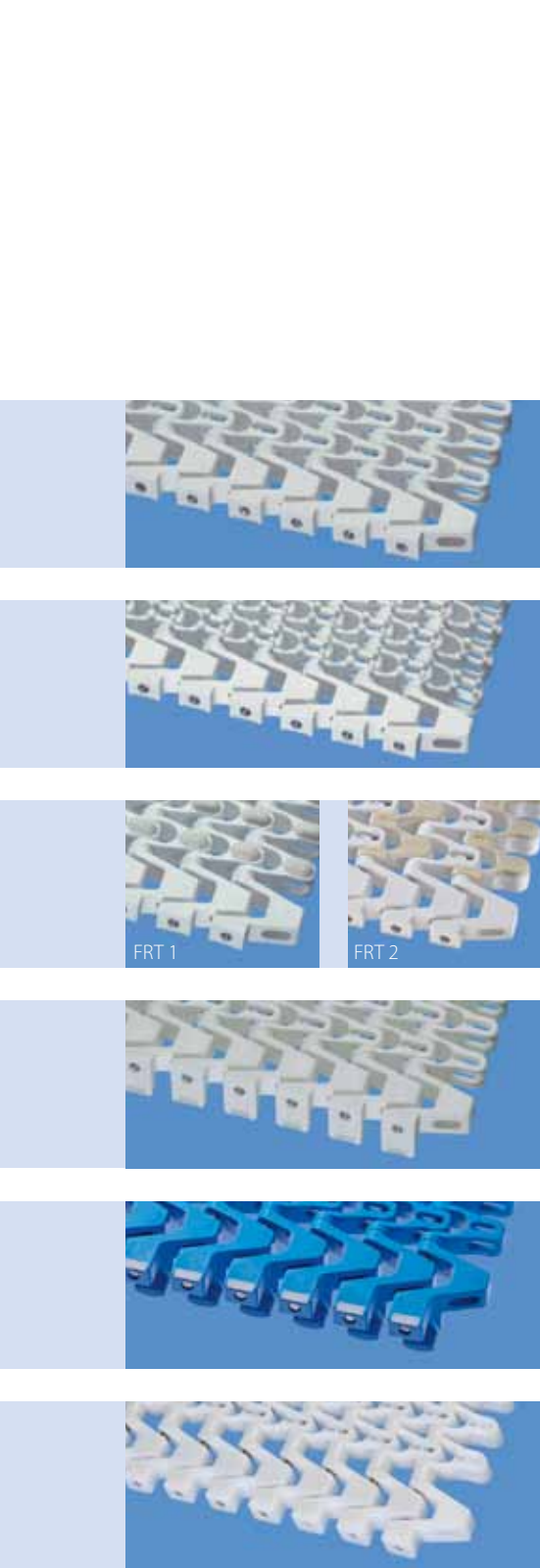
## Technical notes

Minimum curve radius = 2 x belt width.  
Minimum length of the straight in-feed/out-feed section before and after the curve = 2 x belt width.

## Comments

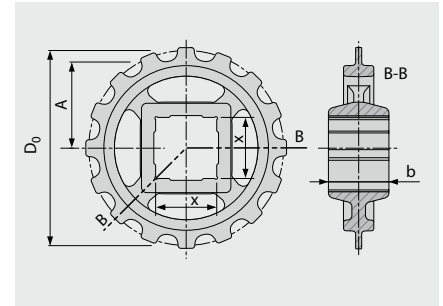
ST types combinable with standard centre curve modules, NTP, FRT.  
ST types not combinable with Guided (G), Side Guards (SG) or Bearing Tab (BT).

Please contact us should you require small curve radii.



Materials	Colours	Open area [%]	Allowable belt pull [N/mm (lb/ft)] (Straight)	Allowable belt pull [N (lb)] (Curves)	Weight [kg/m <sup>2</sup> (lb/ft <sup>2</sup> )] (Stainless steel pins)
PE	WT, DB	45	10 (685)	–	11.0 (2.3)
PP	WT, DB, BL	45	18 (1233)	1000 (225)	10.0 (2.1)
POM-CR	WT, DB, BL	45	25 (1713)	1800 (405)	13.0 (2.7)
PE		45	10 (685)	–	11.2 (2.3)
PP		45	18 (1233)	1000 (225)	10.1 (2.1)
POM-CR		45	25 (1713)	1800 (405)	13.2 (2.7)
PP (R4) FRT 1	WT (BG)	39	18 (1233)	1000 (225)	10.2 (2.1)
PP (R7) FRT 2	WT (BG) BL (BG) BL (BK)	33	18 (1233)	1000 (225)	11.4 (2.3)
PE		45	10 (685)	–	11.0 (2.3)
PP	WT	45	18 (1233)	1000 (225)	10.0 (2.1)
POM-CR	WT, DB	45	25 (1713)	1800 (405)	13.0 (2.7)
POM-CR	BL	45	25 (1713)	2100 (473)	13.2 (2.7)
PE		45	10 (685)	–	11.1 (2.3)
PP	WT, DB, BL	45	18 (1233)	1200 (270)	10.2 (2.1)
POM-CR	WT, DB, BL	45	25 (1713)	2100 (473)	13.2 (2.7)

## Sprockets



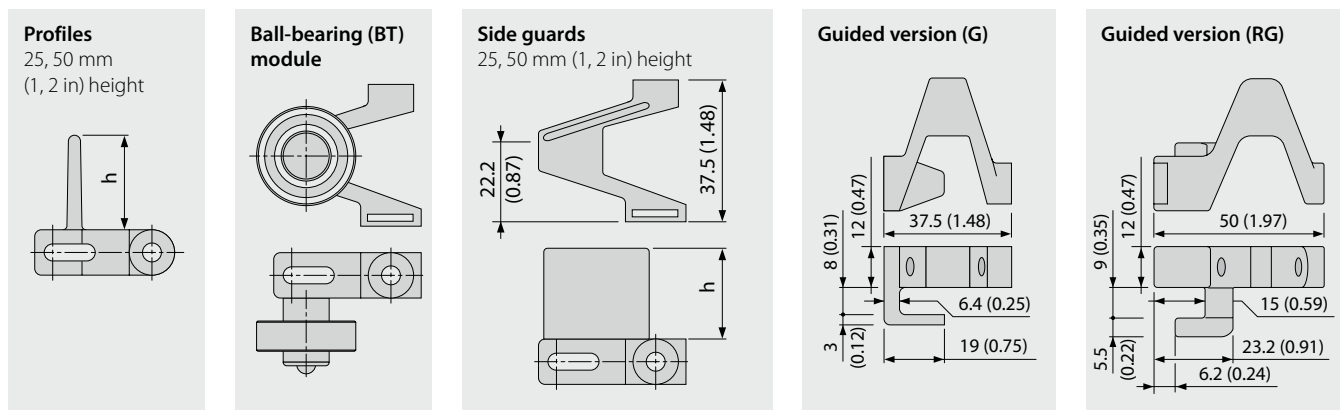
Sprocket size	Z6	Z9	Z11	Z12	Z16	Z18	Z20
b [mm]	25	25	25	25	25	25	25
[in]	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)	(1.0)
D <sub>0</sub> [mm]	50	73	88	96	127	143	159
[in]	(2.0)	(2.9)	(3.5)	(3.8)	(5.0)	(5.6)	(6.2)
A [mm]	19	30	38	42	57	65	73
[in]	(0.7)	(1.2)	(1.5)	(1.7)	(2.2)	(2.6)	(2.9)
<b>x [mm] (sprocket bore metric)</b>							
25	●	●	●	●	●	●	●
30	●	●	●	●	●	●	●
40	●	●	●	●	●	●	●
<b>x [in] (sprocket bore imperial)</b>							
0.75	●	●	●	●	●	●	●
1.0	●	●	●	●	●	●	●
1.25	●	●	●	●	●	●	●
1.5	●	●	●	●	●	●	●

- Sprocket bore round
- Sprocket bore square
- \* Not suitable for G and RG belts

**b** Sprocket width  
**D<sub>0</sub>** Pitch circle diameter  
**A** Distance centre of sprocket bore/  
top edge support

The abbreviations and type key are explained on the fold-out page at the back.

## Profile and side guard designs/special modules



Type key\*

Series ①									
Open area/Sprocket size ②									
Surface pattern ③									
Type ④									
Style ⑤									
Material ⑥									
Colour ⑦									
Height/Diameter/Bore size and style ⑧									
Length/Width ⑨									
Cap material and colour ⑥ ⑦									
S2 -	Z20		SPR		POM	WT	RD1.5IN		
S4.1 -	0	FLT			PP	BL			
S5 -	45	GRT	SML	SG	POM	WT	H50	W38	
S11 -	45	GRT	CW	HD	PA	BL			(POM BL/WT)

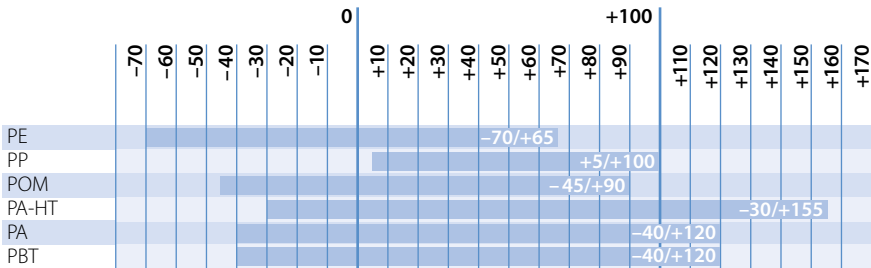
Legend

<b>① Series</b> S1 ... S13	<b>④ Type</b> <b>A90</b> = Angle 90° to conveying direction <b>CM</b> = Centre module <b>SML</b> = Side module, left <b>SMR</b> = Side module, right <b>SMU</b> = Side module, universal/both sides <b>UM</b> = Universal module <b>PMC</b> = Profile module centre <b>PMU</b> = Profile module universal <b>PMU</b> = Profile module universal with indent xx = indent in mm <b>lxx</b> <b>CLP</b> = Clip <b>IDL</b> = Idler <b>RI</b> = High Grip insert <b>SG</b> = Module with sideguard <b>PIN</b> = Coupling rod <b>FPL</b> = Finger plate <b>SLI</b> = Slider <b>SPR</b> = Sprocket <b>RTR</b> = Retaining ring <b>TPL</b> = Turning panel, left <b>TPR</b> = Turning panel, right <b>CW</b> = Clockwise <b>CCW</b> = Counterclockwise	<b>⑥ Material</b> <b>PA</b> = Polyamide <b>PA-HT</b> = Polyamide high temperature <b>PBT</b> = Polybutylenterephthalate <b>PE</b> = Polyethylene <b>PE-MD</b> = PE metal detectable <b>POM</b> = Polyoxymethylene (Polyacetal) <b>POM-CR</b> = POM cut resistant <b>POM-HC</b> = POM highly conductive <b>POM-MD</b> = POM metal detectable <b>PP</b> = Polypropylene <b>PXX-HC</b> = Self-extinguishing highly conductive material <b>POM-PE</b> = POM side modules + PE centre modules <b>POM-PP</b> = POM side modules + PP centre modules <b>R1</b> = TPE 80 Shore A, PP <b>R2</b> = EPDM 80 Shore A, vulcanised <b>R3</b> = TPE 70 Shore A, PP <b>R4</b> = TPE 86 Shore A, PP <b>R5</b> = TPE 52 Shore A, PP <b>R6</b> = TPE 63 Shore A, POM <b>R7</b> = TPE 50 Shore A, PP <b>R8</b> = TPE 55 Shore A, PE <b>SER</b> = Self-extinguishing TPE <b>SS</b> = Stainless steel <b>HA</b> = Supports the HACCP concept <b>HW</b> = High Wear resistant material	<b>⑦ Colour**</b> <b>AT</b> = Anthracite <b>BL</b> = Blue <b>BG</b> = Beige <b>BK</b> = Black <b>DB</b> = Dark blue <b>GN</b> = Green <b>LB</b> = Light blue <b>LG</b> = Light grey <b>OR</b> = Orange <b>RE</b> = Red <b>TR</b> = Transparent <b>UC</b> = Uncoloured <b>WT</b> = White <b>YL</b> = Yellow
<b>② Open area/Sprocket size</b> Percentage open area Format: xx E.g. 20 = 20% For sprockets: number of teeth Format: "Z"xx E.g. Z12 = 12 teeth	<b>⑤ Style</b> <b>BT</b> = Bearing tap <b>G</b> = Guided <b>RG</b> = Reversed guided <b>SG</b> = Side guard <b>ST</b> = Strong (S5) <b>DR</b> = Double row sprocket <b>SP</b> = Split sprocket <b>F1, F2,</b> = Collapse factor <b>F3 ...</b> modules <b>HD</b> = Hold Down	<b>⑧ Height/Diameter/Bore size and style</b> Height in mm Format: Hxxx Pin diameter in mm Format: Dxxx Bore size: SQ (= square) or RD (= round) either in mm or inches Format: SQxxMM or RDxxIN	<b>⑨ Length/Width</b> Pins Length in mm Format: Lxxx Module width in mm Format: Wxxx

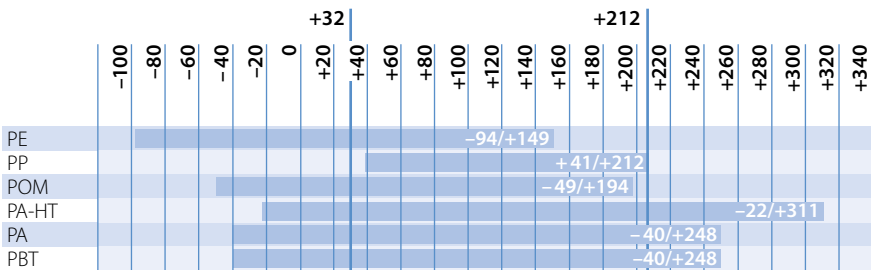
\* Not every product requires all characteristics (within the designation). If there is an irrelevant characteristic, this category will be ignored and replaced by the following one.

\*\* Please refer to the table of types for each series' standard colours. A number of other colours are available on request. Colours can vary from the original due to the print, production processes or material used.

Temperature ranges in °C



Temperature ranges in °F



HACCP types

Series 4.1, 6.1, 10 and 13 in particular support your HACCP concept with a number of hygiene-friendly characteristics. These features include:

Easy-to-clean design

- with wide channels underneath the module

Excellent resistance to hydrolysis

- resistant to hot water, cleaning agents and disinfectants

Good release properties

- beneficial when manufacturing adhesive foodstuffs (minimal product wastage)
- product residue is easy to remove
- easy-to-clean hinge design

Blue a strong colour contrast

- soiling is easier to identify
- suitable for usage in optical sorters
- reduces light reflection, making working conditions better

Declaration of compliances/ Certificates

FDA/EU

Siegling Prolink modular belts made of PE, PP, POM and PA comply with FDA 21 CFR as well as the (EU) 10/2011 and (EC) 1935/2004 regulations regarding the raw materials used and the migration thresholds.

Halal

All Siegling POM Prolink modular belts are certified as being compliant with the Halal regulations by IFRC Asia (member of the World Halal Council).

Friction top

Siegling Prolink modular belts made of PE with Friction top material R7 and of PP with Friction top material R8 comply with FDA 21 CFR as well as the (EU) 10/2011 and (EC) 1935/2004 regulations regarding the raw materials used and the migration thresholds with the exception of contact to oily and fatty foodstuff.

Materials

PE (Polyethylene)

- very good chemical resistance to acids and alkalis
- very good release properties due to low surface tension
- good friction and abrasion behaviour
- extremely tough
- low specific weight

PP (Polypropylene)

- standard material for normal conveying applications
- quite strong and stiff
- good dynamic capacity
- highly resistant to acids, alkalis, salts, alcohols
- low specific weight
- no risk of stress cracks forming

POM (Polyoxymethylene/Polyacetal)

- very dimensionally stable
- very strong and stiff
- high chemical resistance to organic solvents
- lower drag
- very durable material
- hard, incision-resistant surface

POM-CR (POM cut resistant)

- highly resistant to impact and incision
- easy to clean
- minimal ridge formation
- low risk of material delamination

POM-HC (POM highly conductive)

- highly conductive material
- surface resistivity < 10<sup>6</sup> Ω (according to specification)
- very strong and stiff
- very good friction and abrasion properties

POM-MD (POM metal detectable)

- material easily detected in metal detectors
- very strong and stiff
- very good tribological properties (friction and abrasion levels)

PA (Polyamide)

- good wear resistance in dry applications
- short-term temperature resistance up to 135 °C (275 °F)
- good fatigue resistance

PA-HT (Polyamide high temperature)

- material reinforced with fibre glass
- very high short-term temperature resistance up to 180 °C (356 °F)
- absorbs little water in humid environments
- very stiff
- durable

PXX-HC (self-extinguishing highly conductive material)

- flame retardant in line with DIN EN 13501-1 (C<sub>fl</sub>-s1 and DIN 4102 (B1)
- surface resistivity < 10<sup>6</sup> Ω
- specially for use in the automotive industry

PBT (Polybutylenterephthalate)

- good wear resistance
- very good abrasive resistance
- good strength and stiffness
- not recommend for use in hot water > 60 °C (140 °F)



## Siegling – total belting solutions

Committed staff, quality-orientated organisation and production processes ensure the constantly high standards of our products and services. The Forbo Siegling Quality Management System is certified in accordance with ISO 9001.

In addition to product quality, environmental protection is an important corporate goal. Early on we also introduced an environmental management system, certified in accordance with ISO 14001.



### Forbo Siegling service – anytime, anywhere

The Forbo Siegling Group employs more than 2,000 people. Our products are manufactured in nine production facilities across the world. You can find companies and agencies with warehouses and workshops in over 80 countries. Forbo Siegling service points are located in more than 300 places worldwide.