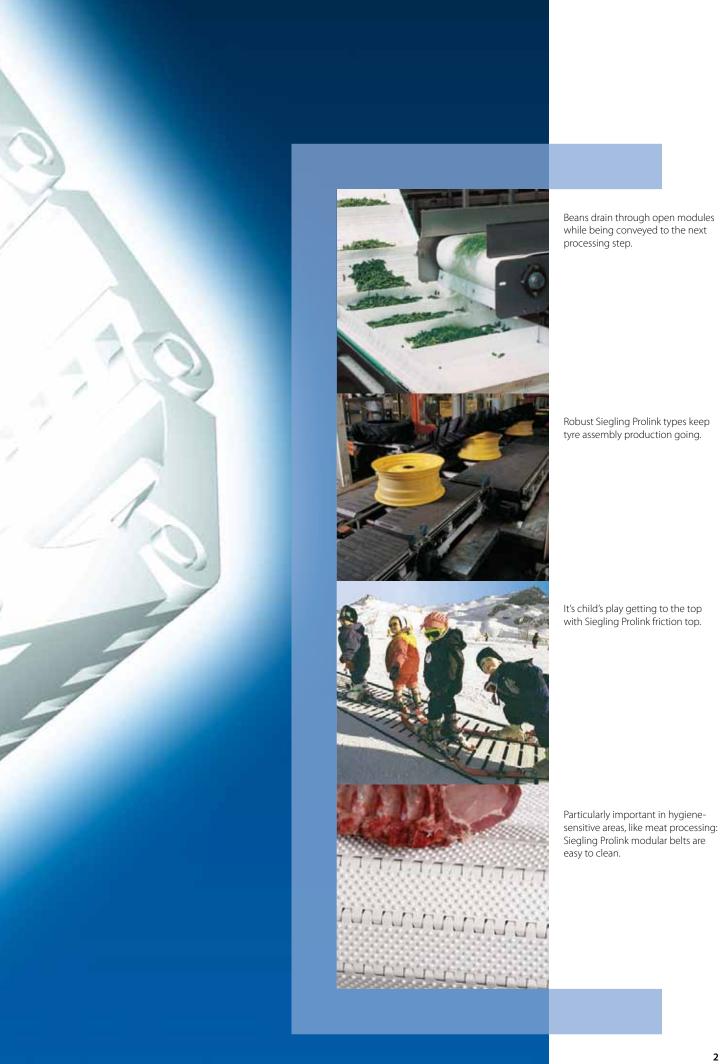
Product Range







Siegling Prolink modular belts

Conventional conveyor belts are only suitable for certain conveying and processing jobs because of their design. Which is why Siegling Prolink plastic modular belts are a perfect addition to the Siegling conveyor belt range. Our vast experience in light materials handling is not just a guarantee of excellent product quality, but also of professional support, rapid availability and qualified service.

Adaptable due to modular design

Siegling Prolink can offer various different module designs, materials and accessories, all combinable with one another. So Siegling Prolink modular belts can be customised to suit the conveying or production job in question. We'll find the right solution, even for highly specialised applications.

Siegling Prolink is used effectively in conveying:

- meat, fish and poultry products
- vegetables
- baked goods of all types
- packages and furniture
- vehicles and skids
- people

Here Siegling Prolink often takes on processing jobs that go above and beyond actual conveying.

Economical to run

Modular belts are robust and durable. They handle conveying and processing tasks, not possible with conventional belting material.

They can be made endless on the conveyor; if damage occurs individual modules can be quickly exchanged. This minimises down times. Different lengths and widths are possible. Functional modules can be inserted at any time, so even belt properties can be changed whenever required.

Content

The Siegling Prolink system	4
Overview Siegling Prolink	
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Areas used	10

The Cicalina Duelink system

Appendix
Type key/legend/
Temperature ranges/
HACCP types/
Declaration of compliances/
Certificates/materials

You can find more information on Siegling Prolink modular belts in:

Siegling Prolink modular belts in: 810-930 Series flyer Siegling Prolink 915 Combo belts (S5 ST & S11) 201 Series 11/Combo belts Design guidelines and recommendations for use 206 Recommendations for constructing and calculating conveyors 208 Technical information Storage, pre-fitting, fitting and operation 321 Radius belts for spiral conveyors Roller top (Siegling Prolink series 8) 409-411 Pin retained rollers

(Siegling Prolink series 6, 7 and 8)





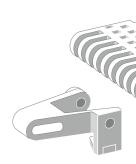
Siegling Prolink curved belts are ideal for space-saving drying or freezing.

Siegling Prolink is a tried and tested belt, processing fish and seafood – both on- and offshore.



As worker belts in the automotive industry, Siegling Prolink modules are safe to stand on.

The Siegling Prolink system: Every belt's a specialist



Wide range of modules

By working together closely with users and OEMs, our R & D department ensures that all types from the Siegling Prolink system are high performers across the board.

Our series include more than 50 types of modules that can handle all sorts of conveying and processing jobs that range from delicate to heavy-duty.

The individual modules are flexibly connected with one another and made endless by inserting hinge pins.

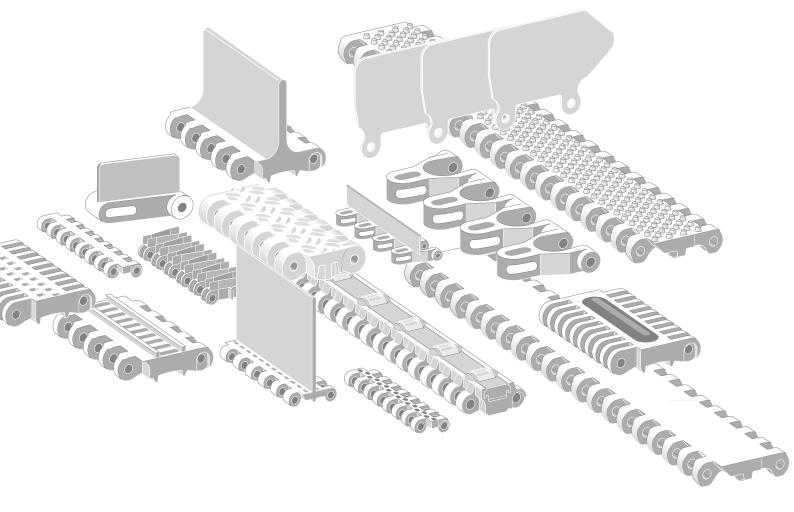
This means:

- variable widths and lengths
- they are easy to repair
- low stock levels are required

Existing conveyors can easily be converted to Siegling Prolink. Apart from the standard colours, any colours can be supplied on request.

We can send data sheets and further technical information about the individual series on request.

The module types presented are not available in some module/material/colour combinations in the standard version. Just ask us if you require more information.



Functional details

To turn the belt into a true specialist, profiles, side guards and further accessories, such as modules with different patterns, belong to almost all the series.

Special modules and individual accessories for special applications are also available or can be developed according to your specifications.

Just contact us.

Numerous materials

Apart from the module's design, selecting the material is another way of customising the belt to suit the conveying and processing task.

All materials have been tried and tested in the most varied of industrial environments and their own exceptional properties mean they can handle a wide range of applications.

The Siegling Prolink series are available in several materials as a standard (see each series for more information.) They can also be made from all the materials shown on the foldout page.

Special HACCP types

New legal requirements are forcing food manufacturers to adopt increasingly stringent hygiene procedures.

Conventional conveyor and processing belts often cannot comply with these requirements. But Siegling Prolink modular belts are designed to effectively support your HACCP concept (see fold-out page).

Overview Siegling Prolink straight running belts

Series 1 Pitch 50 mm (2 in)*

Medium to heavy-duty belt for industrial conveying applications.

Belt types

S1-0 FLTClosed, smooth surfaceS1-18 FLTOpen (18 %), smooth surfaceS1-0 NSKClosed, anti-skid patternS1-0 FRT1Closed, friction top

Series 2 Pitch 25 mm (1 in)*

Light-duty belt for food and container handling and for light industrial applications.

S2-0 FLT Closed, smooth surface
 S2-12 FLT Open (12 %), smooth surface
 S2-57 GRT Open (57 %), grid top surface
 S2-57 RRB Open (57 %), raised ribs for transfer processes
 S2-0 FRT1 Closed, friction top

Series 3 Pitch 50 mm (2 in)*

Medium-duty belt for food and non-food applications. Easy-to-clean, open-hinge design.

S3-0 FLT Closed, smooth surface
 S3-16 FLT Open (16 %), smooth surface
 S3-0 LRB Closed, with lateral ribbing
 S3-16 LRB Open (16 %), with lateral ribbing

Series 4.1 Pitch 14 mm (0.55 in)*

Light to medium-duty belt for food and non-food applications. Small pitch allows tight product transfers, including nose bars. S4.1-0 FLT
 S4.1-0 NPY
 S4.1-0 FRT1
 Closed, with inverted pyramid pattern
 S4.1-0 FRT1
 Closed, friction top
 S4.1-21 FLT
 Open (21%), smooth surface
 S4.1-21 NTP
 Open (21%), with round studs

Series 6.1 Pitch 50 mm (2 in)*

Medium-duty belt designed specifically for demanding applications in meat, poultry and seafood processing, including cutting, deboning and skinning lines. Easy-to-clean, open hinge design.

S6.1-0 FLTClosed, smooth surfaceS6.1-0 NTPClosed, with round studsS6.1-0 CTPClosed, with pointed studsS6.1-21 FLTOpen (21%), smooth surfaceS6.1-23 FLTOpen (23%), smooth surfaceS6.1-36 FLTOpen (36%), smooth surface

Series 7

Pitch 40 mm (1.6 in)*

Heavy-duty belt with superior pull strength and excellent durability for industrial applications. Designed for heavy loads, such as worker belts for the automotive industry, vehicle conveying, etc. S7-0 FLTClosed, smooth surfaceS7-0 SRSClosed, slip-resistant surfaceS7-6 FLTOpen (6%), smooth surfaceS7-0 NSKClosed, anti-skid patternS7-6 NSKOpen (6%), anti-skid patternS7-0 FRT1Closed, friction top

Series 8 Pitch 25.4 mm (1 in)

Medium to heavy-duty belt for industrial applications.

S8-0 FLT
 S8-0 SRS
 Closed, slip-resistant surface
 S8-0 NSK
 Closed, anti-skid pattern
 Open (25%) surface with rounded contact surfaces
 S8-0 FRT1
 Closed, friction top
 S8-0 RTP A90
 Closed surface, with roller top

	Materials**	Colours (standard)**	Allowable belt pull [N/mm (lb/ft)]***	Pitch [mm (in)]*	Belt width min. [mm (in)]*	Width increments [mm (in)]*
S1-0 FLT	PE, PP, POM, POM-HC	AT, WT, YL	18 to 40 (1233 to 2740)	50 (2)	50 (2) For belts with FRT pattern 250 (9.8)	10 (0.4)
S2-0 FLT	PE, PP, POM, PA 6.6-HT	BL, WT	3 to 7 (206 to 480)	25 (1)	50 (2) For belts with FRT pattern 100 (3.9)	16.66 (0.7)
S3-0 FLT	PE, PP, POM	BL, WT	6 to 16 (411 to 1096)	50 (2)	40 (1.6)	20 (0.8)
S4.1-0 FLT	PE, PE-MD, PE (R8), PP, PP (R7), POM, POM-MD, POM (R6), PA-HT	BK, BL, BL (BK), UC, WT, WT (BK)	3 to 10 (206 to 685)	14 (0.55)	25 (1)	12.5 (0.5)
S6.1-0 FLT	PE, PE-MD, PP, PP-MD, POM, POM-CR, POM-MD, PA	BL, LB, WT	13 to 30 (891 to 2055)	50 (2)	40 (1.6)	20 (0.8)
S7-0 FLT	PE, PP, POM, POM-HC, PXX-HC	AT, BK, YL	Plastic pins 18 to 50 (1233 to 3425) Stainless steel pins 30 to 60 (2055 to 4110)	40 (1.6)	40 (1.6) For belts with FRT pattern 360 (14.2)	20 (0.8)
S8-0 FLT	PE, PP, PP (R7), POM, POM (R6), POM-CR, POM-HC, PXX-HC, PA-HT	AT, BL, BL (BK), BK, LG, LG (BK), WT, YL	20 to 40 (1370 to 2740)	25.4 (1)	38.1 (1.5)	12.7 (0.5)

Overview Siegling Prolink straight running belts

Series 10 Pitch 25.4 mm (1 in)

Light to medium-duty belt for products in hygiene-sensitive applications.

Belt types

S10-0 FLT Closed, smooth surface S10-22 FLT Open (22%), smooth surface **S10-0 NTP** Closed, with round studs S10-36 FLT Open (36%), smooth surface S10-36 LRB Open (36%), with lateral ribbing

Series 13 Pitch 8 mm (0.31 in)

Light and medium-duty belt for food and non-food nosebar applications.

S13-0 FLT **S13-0 NPY** Closed, smooth surface Closed, with inverted pyramid pattern

Overview Siegling Prolink side flexing belts

Series 5 Pitch 25 mm (1 in)* Medium-duty radius and spiral belt with stainless steel hinge pins. **Exceptionally strong and versatile** curved belt with large open area.

Belt types

S5-45 GRT Open (45%), lattice shaped S5-45 NTP Open (45%), lattice shaped with high round studs S5-39 FRT1 Open (39%), lattice shaped, friction top, raised S5-33 FRT2 Open (33% for full FRT2 surface area),

lattice shaped, friction top, flat S5-45 GRT G Open (45%), lattice shaped, guided **S5-45 GRT RG** Open (45%), lattice shaped, reversed guided

Series 9 Pitch 50 mm (2 in)* Heavy-duty radius and spiral belt with stainless steel hinge pins. **Exceptionally strong and versatile** curved belt with large open area.

S9-57 GRT Open (57%), lattice shaped S9-57 NTP Open (57%), lattice shaped with round studs

S9-57 GRT G Open (57%), lattice shaped, guided S9-57 GRT Longer side modules, open (57%), lattice shaped

Reinforced type, open (45%), lattice shaped

F2, F3, F4, F5,

F6, F7, F8

S11-33 FRT2

S5-45 GRT ST

Collapse factor modules

Series 11 Pitch 25 mm (1 in)*

Curved belt for conveying lightweight products. The belt is particularly light and has a small curve radius.

S11-45 GRT Open area (45%), lattice-shaped, with replaceable caps

S11-45 GRT HD Open area (45%), lattice-shaped,

with replaceable Hold Down caps Open (33% for full FRT2 surface area), lattice-shaped, friction top, flat

Continued from previous double page.	Materials**	Colours (standard)**	Allowable belt pull [N/mm (lb/ft)]***	Pitch [mm (in)]	Belt width min. [mm (in)]	Width increments [mm (in)]
S10-0 FLT	PE, PE-MD, PP, PP-MD, POM, POM-MD, PA	BL, LB, WT	3 to 20 (206 to 1370)	25.4 (1)	38.1 (1.5)	19.05 (0.75)
S13-0 FLT	POM	BL, WT	4 (274)	8 (0.31)	102 (4)	25.4 (1)

	Materials**	Colours (standard)**	Allowable belt pull [N/mm (lb/ft)]*** (Straight)	Allowable belt pull [N (lb)]*** (Curves)	Pitch [mm (in)]*	Belt width min. [mm (in)]*	Width increments [mm (in)]*	Technical notes
S5-45 GRT	PE, PP, POM-CR	BL, DB, WT	10 to 25 (685 to 1713)	1000 to 2100 (225 to 473)	25 (1)	100 (3.9)	25 (1)	Min. curve radius = 2 x belt width, min. length of the straight in-feed/out-feed section in front of/after curve = 2 x belt width.
S9-57 GRT	PE, PP, POM, POM-CR, PA	BL, DB, LG, WT	12 to 30 (822 to 2055)	1600 to 2800 (360 to 630)	50 (2)	100 (3.9)	50 (2)	Min. curve radius = 1.8 x belt width, min. length of the straight in-feed/out-feed section in front of/after curve = 2 x belt width.
S11-45 GRT	PP, POM-CR, PA	WT, BL	9 to 15 (617 to 1028)	600 to 1000 (135 to 225)	25 (1)	175 (6.9)	25 (1)	Min. curve radius = 1.4 x belt width, min. length of the straight in-feed/out-feed section in front of/after curve = 2 x belt width.

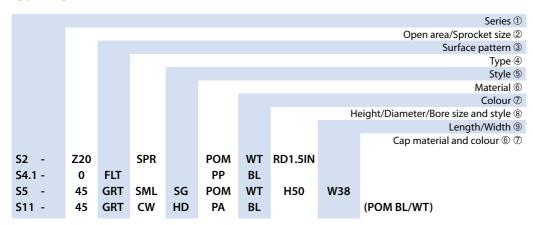
 ^{*} All imperial measurements have been rounded up.
 ** Not all materials are available in all colours.
 *** Depending on type and material.

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

	Overview of areas used	Cleaning	Draining	Elevators	Sorting	Standard conveying	Deep freezing	Palletizing/de-palletizing	Container conveying	Sterilising/cooling	Emptying moulds	Cleaning tunnels	Spirals	Cooling/freezing	Standard conveying	Decorating/glazing	Metal detectors	Conveying sheets/moulds	Laminating	Packaging	
				Fru	it and	d veg	jetab	oles						Ва	aked	good	ds				
Sarias 1	S1-0 FLT S1-18 FLT S1-0 NSK S1-0 FRT1	•	•	•	•	•	•				•	•						•		•	
Sarias 2	\$2-0 FLT \$2-12 FLT \$2-57 GRT \$2-57 RRB \$2-0 FRT1	•	•		•	•	•	•	•	•				•	•	•	•	•	•	•	
Series 3	S3-0 FLT S3-16 FLT S3-0 LRB S3-16 LRB	•	•	•	•	•	•	•	•	•	•	•			•	•		•		•	
Series 4	S4.1-0 FLT S4.1-0 NPY S4.1-0 FRT1 S4.1-21 FLT S4.1-21 NTP		•	•				•						•	•	•	•		•	•	
Series 5	S5-45 GRT S5-45 NTP S5-39 FRT1/S5-33 FRT2 S5-45 GRT G S5-45 GRT RG S5-45 GRT ST	•	•			•	•			•	•	•	•	•	•		•	•			
Sariac	S6.1-0 FLT S6.1-0 NTP S6.1-0 CTP S6.1-21 FLT S6.1-23 FLT S6.1-36 FLT	•	•	•		•	•			•	•	•		•	•		•			•	
Sarias 7	S7-0 FLT S7-0 SRS S7-6 FLT S7-0 NSK S7-6 NSK S7-0 FRT1																				
Sarios 8	\$8-0 FLT \$8-0 \$RS \$8-0 NSK \$8-25 RAT \$8-0 FRT1 \$8-0 RTP A90			•		•		•	•		•				•			•		•	
Series 9	S9-57 GRT S9-57 NTP S9-57 GRT G S9-57 GRT F2, F3, F4, F5, F6, F7, F8	•	•				•			•		•	•	•	•			•			
Sarias 10	\$10-0 FLT \$10-0 NTP \$10-22 FLT \$10-36 FLT \$10-36 LRB	•	•	•	•	•	•			•		•		•	•	•	•				
Series 11	S11-45 GRT S11-45 GRT HD S11-33 FRT2					•									•			•		•	
Series 13					•	•								•	•	•	•		•		

Cutting/jointing	Trimming	Cooling/freezing	Standard conveying	Elevators	Metal detectors	Packaging	Elevators	Draining	Inspection benches	Standard conveying	Freezing/decorating	Metal detectors	Packaging	Vehicle conveying	Tire conveying	Skid conveying	Worker belts	General logistics	Package sorting	Airports	Textiles industry	Glass industry	Deep freezing/freezing towers	Dairy products	Conveying people	Ski lift/access belts	Unit goods	Palette conveyors	Paper	Corrugated cardboard
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Type key*



Legend

1	Series	

S1 ... S13

② Open area/Sprocket size

Percentage open area Format: xx E.g. 20 = 20 % For sprockets: number of teeth Format: "Z"xx E.g. Z12 = 12 teeth

3 Surface pattern

Base module for slider Cone top CTP FLT Flat top (smooth) Friction top (Design X) FRT(X) =FRT-OG = FRT without High Grip insert GRT Grid top LRB Lateral rib MOD Modified module shape = NCL No cling NPY Inverted pyramid NSK Non skid NTP Nub top (round studs) RAT Radius top RTP Roller top RRB Raised rib SRS Slip-resistant surface

4 lyp	e	
A90	=	Angle 90° to
		conveying direction
CM	=	Centre module
SML	=	Side module, left
SMR	=	Side module, right
SMU	=	Side module,
		universal/both sides
UM	=	Universal module
PMC	=	Profile module centre
PMU	=	Profile module
		universal
PMU	=	Profile module
lxx		universal with indent
		xx = indent in mm
CLP	=	Clip
IDL	=	Idler
RI	=	High Grip insert
SG	=	Module with
		sideguard
PIN	=	Coupling rod
FPL	=	Finger plate
SLI	=	Slider
SPR	=	Sprocket
RTR	=	Retaining ring
TPL	=	Turning panel, left
TPR	=	Turning panel, right
CW	=	Clockwise
CCW	=	Counterclockwise

ВТ Bearing tap G Guided RG Reversed guided SG Side guard ST Strong (S5) DR Double row sprocket SP Split sprocket F1, F2, Collapse factor F3 ... modules Hold Down HD

6 Materia	al	
PA	=	Polyamide
PA-HT	=	Polyamide
		high temperature
PBT	=	Polybutylenterephthalate
PE	=	Polyethylene
PE-MD	=	PE metal detectable
POM	=	Polyoxymethylene
		(Polyacetal)
POM-CR	=	POM cut resistant
POM-HC	=	POM highly conductive
POM-MD	=	POM metal detectable
PP	=	Polypropylene
PXX-HC	=	Self-extinguishing
		highly conductive
		material
POM-PE	=	POM side modules +
		PE centre modules
POM-PP	=	POM side modules +
		PP centre modules
R1	=	TPE 80 Shore A, PP
R2	=	EPDM 80 Shore A,
		vulcanised
R3	=	TPE 70 Shore A, PP
R4	=	TPE 86 Shore A, PP
R5	=	TPE 52 Shore A, PP
R6	=	TPE 63 Shore A, POM
R7	=	TPE 50 Shore A, PP
R8	=	TPE 55 Shore A, PE
SER	=	Self-extinguishing TPE
SS	=	Stainless steel
HA	=	Supports the
		HACCP concept
HW	=	High Wear resistant
		material

⑦ Cc	lour	**	
ΑT	=	Anthracite	
BL	=	Blue	
BG	=	Beige	
BK	=	Black	
DB	=	Dark blue	
GN	=	Green	
LB	=	Light blue	
LG	=	Light grey	
OR	=	Orange	
RE	=	Red	
TR	=	Transparent	
UC	=	Uncoloured	
WT	=	White	
YL	=	Yellow	

8 Height/Diameter/ Bore size and style

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

9 Length/Width

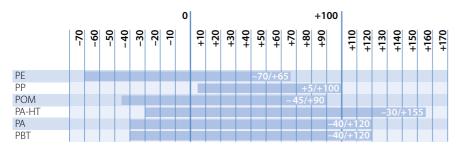
Pins Length in mm
Format: Lxxx
Module width in mm
Format: Wxxx

- * 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.

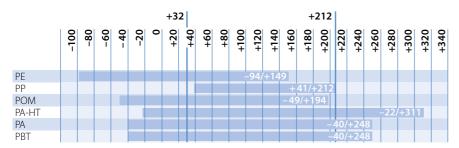
 A number of other colours are available on request.

 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 $< 10^6 \,\Omega$ (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 $^{\circ}\text{C}$ (356 $^{\circ}\text{F})$
- 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_{fl}-s1 and DIN 4102 (B1)
- surface resistivity $< 10^6 \,\Omega$
- 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)

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.





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