siegling prolink
modular belts

PRODUCT RANGE
Traditional conveyor belts are often intended for generic use, but the design features of Siegling Prolink modular belts are aimed at providing specific processing and application benefits. This is why the Siegling Prolink modular belts are a perfect addition to Forbo Movement Systems existing wide range of belting products. Our vast experience in conveying and processing applications, combined with our line of highly specialized belts ensure that we can offer optimized conveying solutions regardless of the application. The Forbo Movement Systems name is synonymous with not only superior product quality, but also with professional technical support and quality service.
SIEGLING PROLINK
PLASTIC MODULAR BELTING

Modular means adaptable

Siegling Prolink offer a wide product range with many different module designs. Modules within individual product series can easily be combined. As a result, Siegling Prolink modular belts can be customized to suit individual conveying and processing tasks. We will help you identify the optimal solution for your specific needs.

Siegling Prolink is used successfully in a broad range of applications in industries such as:

- fruit and vegetable processing
- baked goods manufacturing
- meat, poultry and seafood processing
- automotive and tire manufacturing
- logistics

In these areas, Siegling Prolink modular belts often play a significant role beyond conveying.

Benefits of modular belting

Modular belts are robust and durable and can handle conveying and processing tasks which may not be possible with conventional conveyor belting materials and types.

When assembled and installed, modular belts are endless, but if damage occurs, individual modules can quickly be replaced, thereby minimizing down time and maintenance costs. Modular belts can be supplied in any length and width and if needed, functional modules can be added at any time so belt properties can be changed if required.

The Siegling Prolink System – Every belt is a specialist!

Design and quality
Sophisticated module design, precise manufacturing and high-quality materials ensure optimal belt and application performance.

Page 5

Functions and types
The right belt for any application! The availability of a wide range of Siegling Prolink belts are shown by pitch, surface options and application (straight running and side-flexing)

Page 7

Materials and properties
In addition to standard materials, a lot of belt types are made of special materials. An overview.

Page 21
The high quality standards applied to the manufacturing and fabrication of Siegling Prolink modular belts ensure optimal application performance and the highest level of customer satisfaction. Our products are manufactured in accordance with the ISO 9001 QM-system which is audited and updated quarterly. Manufacturing tolerances, on-going testing and monitoring performed by our highly trained staff ensure a consistent and high level of product quality.
R & D Concepts

When developing Siegling Prolink modular belts and components, we collaborate closely with OEMs and end-users to ensure that customer expectations and application requirements are met. Many Prolink components are designed for particular conveying applications and processing requirements. This is your guarantee for optimal application performance when utilizing Siegling Prolink modular belts.

Manufacturing quality

Our state-of-the-art design, tooling and processing technology reflect the importance we place on the ability to manufacture flawless components and parts according to specifications. A smooth surface is one of the hallmarks of superior-quality injection molded parts. We place an emphasis on maximizing the quality and consistency of all molded parts.

- less contamination risk
- easy to clean
- reliable conveying, even of sensitive products
- application-driven module designs for challenging requirements
- efficient and effective R&D processes
- exceptional value

Tolerances

Siegling Prolink injection molded modules and components as well as assembled belts are manufactured to tight tolerances. This is an integral part of our overall product design and allows for easy and efficient fabrication, and belt repair if needed. Reliable, actual belt dimensions are easily obtainable and can help simplify conveyor designs.

- actual belt dimensions easily obtainable
- simplified conveyor designs
- superior functionality under all normal conditions
- long service life for belts and components

Materials

We apply the same stringent requirements and demands from our material suppliers as we do from ourselves. Close collaboration with suppliers and vendors not only guarantees consistently high-quality parts and components when using standard materials but also when special materials are needed from time to time to meet specific application requirements and conditions. This is especially important if application temperatures are excessive or if chemical degradation from sanitizers is likely.
Siegling Prolink modular belts can be customized by using modules with different surface patterns and openings. Side guards, profiles and other accessories such as friction pads, wheel stoppers and Hold Down tabs can be added to most belt series, thereby optimizing the application.

Special modules and accessories for further customization are available, or can be developed according to customer specifications.

Please contact us if you have a specific request requiring a customized conveying application.
SIEGLING PROLINK
FUNCTIONS AND TYPES

Straight running belts

**Pitch 8 mm (0.31 in)**

- S13 | 0% open | Flat Top
- S13 | 0% open | Negative Pyramid
- S13 | 0% open | Cone Top
- S13 | 34% open | Flat Top

**Pitch 12.7 mm (0.5 in)**

- S14 | 0% open | Flat Top
- S14 | 25% open | Flat Top
- S15 | 47% open | Grid Top
- S15 | 47% open | Reduced surface area
**Pitch 14 mm (0.55 in)**

- Pitch 14 mm (0.55 in)

**Pitch 25 mm (1 in)**

- Pitch 25 mm (1 in)
Pitch 25 mm (1 in)

S2 | 0% open | Friction Top 1
S8 | 0% open | Slip-resistant
S8 | 0% open | Non Skid 1

S8 | 0% open | Non Skid 2
S8 | 0% open | Friction Top 1
S10 | 0% open | Friction Top 1

S8 | 0% open | Roller Top A90
S8 | 0% open | FLT with PRR
S8.1 | 30% open | Flat Top

Pitch 40 mm (1.6 in)

S7 | 0% open | Flat Top

S7 | 6% open | Flat Top
S7 | 0% open | Slip Resistant
S7 | 0% open | Non Skid

S7 | 6% open | Non Skid
S7 | 0% open | Friction Top 1
S7 | 0% open | FLT with PRR
**Pitch 50 mm (2 in)**

- S1 | 0% open | Flat Top
- S3 | 0% open | Flat Top
- S6.1 | 0% open | Flat Top
- S1 | 18% open | Flat Top
- S3 | 16% open | Flat Top
- S6.1 | 21% open | Flat Top
- S6.1 | 23% open | Flat Top
- S6.1 | 36% open | Flat Top
- S9 | 57% open | Grid Top
- S3 | 0% open | Lateral Rib
- S3 | 16% open | Lateral Rib
- S6.1 | 0% open | Cone Top
- S6.1 | 0% open | Nub Top
- S1 | 0% open | Non Skid
- S1 | 0% open | Friction Top 1
- S6.1 | 0% open | FLT with PRR
Side flexing and spiral belts

**Pitch 25 mm (1 in)**

SS | 45% open | Grid Top
SS | 45% open | Grid Top Reverse Guided
SS | 45% open | Grid Top Strong
S11 | 45% open | Hold Down Caps
S11 | 45% open | Nub Top
S11 | 33% open | Friction Top 2

**Pitch 50 mm (2 in)**

S9 | 57% open | Grid Top
S9 | 57% open | Grid Top Guided
S9 | 57% open | Nub Top
## Modular belt series – Overview

<table>
<thead>
<tr>
<th>Series</th>
<th>Pitch</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>50 mm (2 in)</td>
<td>Medium to heavy-duty belt for industrial conveying tasks. Closed hinge design.</td>
</tr>
<tr>
<td>2</td>
<td>25 mm (1 in)</td>
<td>Light-duty belt for food, container handling and industrial use. Open hinge design.</td>
</tr>
<tr>
<td>3</td>
<td>50 mm (2 in)</td>
<td>Medium-duty belt for food use. Easy to clean. Open hinge design.</td>
</tr>
<tr>
<td>4.1</td>
<td>14 mm (0.55 in)</td>
<td>Light to medium-duty belt for food and non-food use. Small pitch allows tight product transfers using nose bars or sprockets. Open hinge design.</td>
</tr>
<tr>
<td>5</td>
<td>25 mm (1 in)</td>
<td>Light to medium-duty radius and spiral belt with stainless steel hinge pins. Exceptionally strong and versatile side flexing belt with large open area.</td>
</tr>
<tr>
<td>6.1</td>
<td>50 mm (2 in)</td>
<td>Medium to heavy-duty belt designed specifically for tasks requiring the highest hygiene standards in meat, poultry and seafood processing, including cutting, deboning and skinning lines. Easy to clean. Open hinge design.</td>
</tr>
<tr>
<td>7</td>
<td>40 mm (1.6 in)</td>
<td>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. Closed hinge design.</td>
</tr>
<tr>
<td>8</td>
<td>25.4 mm (1 in)</td>
<td>Medium to heavy-duty belt for industrial applications. Closed hinge design.</td>
</tr>
<tr>
<td>9</td>
<td>50 mm (2 in)</td>
<td>Medium to heavy-duty radius and spiral belt with stainless steel hinge pins. Exceptionally strong and versatile side flexing belt.</td>
</tr>
<tr>
<td>10</td>
<td>25.4 mm (1 in)</td>
<td>Light to medium-duty belt for hygiene-sensitive products. Easy to clean. Open hinge design.</td>
</tr>
<tr>
<td>11</td>
<td>25 mm (1 in)</td>
<td>Side flexing belt for conveying lightweight products. This lightweight belt has an exceptionally low turn radius of 1.4 x belt width.</td>
</tr>
<tr>
<td>13</td>
<td>8 mm (0.31 in)</td>
<td>Light-duty micro pitch belt for food and non-food tight-transfer nose bar use. Open hinge design.</td>
</tr>
<tr>
<td>14</td>
<td>12.7 mm (0.5 in)</td>
<td>Medium-duty belt for food and non-food use. Small pitch allows tight product transfers. Bottom design optimized for nose bars. Strong closed hinge design.</td>
</tr>
<tr>
<td>15</td>
<td>12.7 mm (0.5 in)</td>
<td>Belt for light-duty food applications utilizing 12.7 mm (0.5 in) nose bars</td>
</tr>
</tbody>
</table>

## Load index

The following table shows the changes in load capacity between different materials and over all available series.

<table>
<thead>
<tr>
<th>Series</th>
<th>PE</th>
<th>PP</th>
<th>POM</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight running belts</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S1</td>
<td>60%</td>
<td>100%</td>
<td>133%</td>
<td></td>
</tr>
<tr>
<td>S2</td>
<td>10%</td>
<td>17%</td>
<td>23%</td>
<td>17%</td>
</tr>
<tr>
<td>S3</td>
<td>20%</td>
<td>40%</td>
<td>53%</td>
<td></td>
</tr>
<tr>
<td>S4.1</td>
<td>10%</td>
<td>17%</td>
<td>33%</td>
<td>33%</td>
</tr>
<tr>
<td>S5</td>
<td>33%</td>
<td>60%</td>
<td>83%</td>
<td></td>
</tr>
<tr>
<td>S6.1</td>
<td>43%</td>
<td>60%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>S7</td>
<td>60%</td>
<td>100%</td>
<td>200%</td>
<td></td>
</tr>
<tr>
<td>S8</td>
<td></td>
<td>67%</td>
<td>133%</td>
<td>100%</td>
</tr>
<tr>
<td>S8-0 RTP</td>
<td></td>
<td>67%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S9</td>
<td>40%</td>
<td>73%</td>
<td>100%</td>
<td>80%</td>
</tr>
<tr>
<td>S10-0 FLT, S10-0 NTP, S10-0 FRT1</td>
<td>20%</td>
<td>27%</td>
<td>67%</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Series</th>
<th>PE</th>
<th>PP</th>
<th>POM</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Side flexing belts</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S5</td>
<td></td>
<td>56%</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>S5 RG, S5 ST</td>
<td></td>
<td>67%</td>
<td>117%</td>
<td></td>
</tr>
<tr>
<td>S9</td>
<td></td>
<td>89%</td>
<td>156%</td>
<td>124%</td>
</tr>
<tr>
<td>S11</td>
<td></td>
<td>33%</td>
<td>56%</td>
<td>56%</td>
</tr>
</tbody>
</table>
Straight running belts

**Series 1** l Pitch 50 mm (1.97 in)
Belts for medium to heavy-duty industrial conveying applications

**Series 2** l Pitch 25 mm (0.98 in)
Belts for light-duty food and container handling applications

**Design characteristics**
- Narrow, closed hinge design provides high belt pull capacity
- Rigid module design makes belt suitable for long conveyors
- Closed solid edge design

**Available surface pattern and opening area**
- S1-0 FLT Closed, smooth surface
- S1-0 SRS Closed, slip-resistant surface
- S1-18 FLT Open (18%), smooth surface
- S1-0 NSK Closed surface and non-skid pattern
- S1-0 FRT1 Closed surface with friction top

**Design characteristics**
- Hinges that open wide provides an easy-to-clean belt design
- Low belt weight reduces energy consumption
- Open edge design on flat top versions for unhindered drainage and closed edge design on grid top and raised rib versions

**Available surface pattern and opening area**
- S2-0 FLT Closed, smooth surface
- S2-0 FRT1 Closed surface with friction top
- S2-12 FLT Open (12%), smooth surface
- S2-57 GRT Open (57%), grid top surface
- S2-57 RRB Open (57%), raised rib surface

Sprockets, profiles and side guards available in different sizes and designs

Sprockets, profiles, side guards and finger plates available in different sizes and designs
Straight running belts

**Series 3 | Pitch 50 mm (1.97 in)**
Belts for medium-duty food applications

- Hinges that open wide, combined with smooth, flat channels on the underside provides an easy-to-clean belt design
- Open edge design for unhindered drainage

**Available surface pattern and opening area**

<table>
<thead>
<tr>
<th>Pattern</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S3-0 FLT</td>
<td>Closed, smooth surface</td>
</tr>
<tr>
<td>S3-16 FLT</td>
<td>Open (16%), smooth surface</td>
</tr>
<tr>
<td>S3-0 LRB</td>
<td>Closed surface with lateral ribs</td>
</tr>
<tr>
<td>S3-16 LRB</td>
<td>Open (16%) surface with lateral ribs</td>
</tr>
</tbody>
</table>

Sprockets, profiles and side guards available in different sizes and designs

**Series 4.1 | Pitch 14 mm (0.55 in)**
Belts for light to medium-duty food and non-food applications

- Small pitch belt for applications requiring small transfer gaps
- Hinges that open wide and flat channels on the underside ensure the belt is easy to clean
- Unique sprocket design with rounded tooth edges provides ideal load distribution
- Wide sprocket teeth ensure superior sprocket engagement and strength

**Available surface pattern and opening area**

<table>
<thead>
<tr>
<th>Pattern</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S4.1-0 FLT</td>
<td>Closed, smooth surface</td>
</tr>
<tr>
<td>S4.1-0 NPY</td>
<td>Closed surface with inverted pyramid pattern</td>
</tr>
<tr>
<td>S4.1-0 FRT1</td>
<td>Closed surface with friction top</td>
</tr>
<tr>
<td>S4.1-21 FLT</td>
<td>Open (21%), smooth surface</td>
</tr>
<tr>
<td>S4.1-21 NTP</td>
<td>Open (21%) surface with round studs. Version available without round studs at the side (25 mm indent)</td>
</tr>
</tbody>
</table>

Sprockets and profiles available in different sizes and designs

1. NSF Certificate
**Series 6.1 | Pitch 50 mm (1.97 in)**
Belts for medium to heavy-duty, hygiene-critical applications

**Design characteristics**
- Wide modules and eyelets for less soiling
- Hinges that open wide, wide channels on the underside and a continuous drive bar for an easy-to-clean design
- Robust design and smooth, cut-resistant surface (depending on material)
- Special sprocket design with enhanced tooth engagement for excellent force transmission

**Available surface pattern and opening area**
- S6.1-0 FLT: Closed, smooth surface
- S6.1-0 NTP: Closed surface and round studs
- S6.1-0 CTP: Closed surface and pointed studs
- S6.1-21 FLT: Open (21%), smooth surface
- S6.1-23 FLT: Open (23%), smooth surface
- S6.1-36 FLT: Open (36%), smooth surface

**Sprockets, profiles, side guards and Hold Down tabs available in different sizes and designs**

**Series 7 | Pitch 40 mm (1.57 in)**
Belts for heavy-duty non-food applications

**Design characteristics**
- Closed-hinge design provides high belt pull capacity
- Small-pitch relative to belt thickness makes belt suitable for compact, heavily loaded conveyors
- Robust design with large surface contact area ensures superior wear life
- Closed solid edge
- Flame retardant version available (PXX-HC – in line with DIN EN 13501-1)

**Available surface pattern and opening area**
- S7-0 FLT: Closed, smooth surface
- S7-0 SRS: Closed, slip-resistant surface
- S7-6 FLT: Open (6%), smooth surface
- S7-0 NSK: Closed surface with non-skid pattern
- S7-6 NSK: Open (6%) surface with non-skid pattern
- S7-0 FRT1: Closed surface with friction top

**Sprockets and wheelstoppers available in different sizes and designs**

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1) NSF-compliant from these certified Forbo plants: Huntersville (USA), Malacky (Slovakia), NSW (Australia), Tlalnepantla (Mexico), Saint-Petersburg (Russia), Shizuoka (Japan), Maharashtra (India)
Straight running belts

**Series 8** | Pitch 25.4 mm (1 in)
Belts for medium to heavy-duty applications

- Closed hinge design provides high belt pull capacity
- Rigid module design makes belt suitable for long conveyors
- Robust design guarantees superior durability
- Closed solid edge design
- Flame retardant version available (PXX-HC – in line with DIN EN 13501-1)

**Available surface pattern and opening area**

- S8-0 FLT
  Closed, smooth surface
- S8-0 SRS
  Closed, slip-resistant surface
- S8-0 NSK1/S8-0 NSK2
  Closed surface with non-skid pattern
- S8-25 RAT
  Open (25%) surface with rounded contact surfaces
- S8-30 FLT
  Open (30%) flat top surface with rounded hinges
- S8-0 FRT1
  Closed surface with friction top
- S8-0 RTP A90
  Closed surface with roller top

**Design characteristics**
- Small number of eyelets ensures easy cleaning
- Hinges that open wide, combined with smooth, flat channels on the underside and a continuous drive bar produce an easy-to-clean design
- Robust design guarantees superior durability
- Optimal design of sprocket teeth and tracking fins provides superior sprocket engagement, safe belt tracking and an easy-to-clean sprocket

**Series 10** | Pitch 25.4 mm (1 in)
Belts for light to medium-duty hygiene-critical applications

**Design characteristics**
- Sprockets, profiles, side guards and Hold Down tabs available in different sizes and designs

**Available surface pattern and opening area**

- S10-0 FLT
  Closed, smooth surface
- S10-0 NTP
  Closed surface with round studs
- S10-0 FRT1
  Closed surface with friction top
- S10-22 FLT
  Open (22%), smooth surface
- S10-36 LRB
  Open (36%) surface and lateral ribbing
- S10-36 FLT
  Open (36%), smooth surface

Sprockets, profiles, side guards and Hold Down tabs available in different sizes and designs
Series 13 | Pitch 8 mm (0.31 in)
Belts for light-duty food and non-food nose bar applications

**Design characteristics**
- Micro pitch belt with small transfer gaps
- Designed to run over nose bars/knife edges or rollers with a radius down to 3 mm (0.12 in) allowing, precise transfer of even the smallest products
- Versatile for conveying, drying and cooling applications
- Optimal design of sprocket teeth, and belt underside provides superior sprocket engagement, safe belt tracking and good cleaning capabilities
- Belt and sprocket design ensures superior load transmission and belt pull capacity
- Headless pin making it very easy to install and remove the belt for maintenance

**Available surface pattern and opening area**
- S13-0 FLT
  - Closed, smooth surface
- S13-0 NPY
  - Closed surface with inverted pyramid pattern
- S13-0 CTP
  - Closed surface and pointed studs
- S13-34 FLT
  - Open (34%), smooth surface

Series 14 | Pitch 12.7 mm (0.50 in)
Belts for medium-duty food and non-food applications

**Design characteristics**
- Mini pitch belt with small transfer gap
- Robust design guarantees superior durability and high belt pull capacity
- Design for smooth run on 19 mm (0.75 in) nose bar
- Headless pin system, making it easy to install and remove the belt for maintenance
- Closed, solid belt edge to prevent belt edge damages

**Available surface pattern and opening area**
- S14-0 FLT
  - Closed, smooth surface
- S14-25 FLT
  - Open (25%), smooth surface

Sprockets available in different sizes and designs

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1) NSF-compliant from these certified Forbo plants: Huntersville (USA), Malacky (Slovakia), NSW (Australia), Tlalnepantla (Mexico), Saint-Petersburg (Russia), Shizuoka (Japan), Maharashtra (India)
**Straight running belts**

**Series 15 | Pitch 12.7 mm (0.50 in)**
Belt for light-duty food applications utilizing 12.7 mm (0.5 in) nose bars

- Mini-pitch belt with large open area for optimum airflow
- Scalloped underside facilitates smooth product transfer over a 12.7 mm (0.5 in) diameter nose bar.
- Open hinge for improved sanitation
- Narrow 25 mm (1 in) width increments offer superior support of conveyed products
- Solid and robust edge design incorporating improved pin retention
- Headless one-piece pin for easy installation and removal
- Sprockets with large solid tooth insures superior load transmission and long wear life

**Available surface pattern and opening area**

- **S15-47 GRT**
  Open (47 %), lattice-shaped surface

- **S15-47 RSA**
  Open (47 %), lattice-shaped surface with reduced surface area

Sprockets available in different sizes and designs

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**Side flexing and spiral belts**

**Series 5 | Pitch 25 mm (0.98 in)**
Belts for light to medium-duty food and non-food applications

- Suitable for both straight and radius conveying
- Up to 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

**Available surface pattern and opening area**

- **S5-45 GRT**
  Open (45 %), lattice-shaped surface

- **S5-45 NTP**
  Open (45 %) surface with nub tops

- **S5-39 FRT1**
  Open (45 %) surface with friction top

- **S5-33 FRT2**
  Open (33 %) surface with friction top, flat

Guided belts

Reversed guided belts

Reinforced belts

Sprockets, profiles, side guards and ball-bearing modules available in different sizes and designs
**Series 9** | Pitch 50 mm (1.97 in)
Belts for medium to heavy-duty food and non-food applications

**Design characteristics**
- Suitable for both straight and radius conveying
- 57% 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 pin

**Available surface pattern and opening area**

<table>
<thead>
<tr>
<th>Surface Pattern</th>
<th>Opening Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>S9-57 GRT</td>
<td>Open (57%), lattice-shaped surface</td>
</tr>
<tr>
<td>S9-57 NTP</td>
<td>Open (57%), lattice-shaped surface with nub top</td>
</tr>
</tbody>
</table>

**Guided belts**

**Longer side modules**

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**Series 11** | Pitch 25 mm (0.98 in)
Belts for light-duty food and non-food applications

**Design characteristics**
- 45% open area provides excellent cooling and draining capabilities
- All plastic lightweight belts (plastic pins)
- Tight radius belt with minimum curve radius of 1.4 x belt width
- Outermost hinge is fixed to the pin to prevent deflection and elimination of potential belt edge catch points
- Suitable for both straight and radius conveying
- Ideal transmission of force due to sprockets offset inwards. Idlers support the belt on the outside

**Available surface pattern and opening area**

<table>
<thead>
<tr>
<th>Surface Pattern</th>
<th>Opening Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>S11-45 GRT</td>
<td>Open (45%), lattice-shaped surface with replaceable caps</td>
</tr>
<tr>
<td>S11-45 GRT HD</td>
<td>Open (45%), lattice-shaped surface with replaceable Hold Down caps</td>
</tr>
<tr>
<td>S11-33 FRT2</td>
<td>Open (33% for full FRT2 surface area), surface with friction top, flat</td>
</tr>
</tbody>
</table>

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Sprockets, profiles and side guards available in different sizes and designs
Apart from designing module and sprocket features for specific applications, selecting the optimal materials is also important in making sure that a belt is well-suited for specific conveying or processing applications.

All materials are tried and tested in the most varied industrial environments. The specific characteristics of the individual materials guarantee ability to handle a wide range of applications.
SIEGLING PROLINK
MATERIALS AND PROPERTIES

Materials

<table>
<thead>
<tr>
<th>Material</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA</td>
<td>Polyamide</td>
</tr>
<tr>
<td>PA-HT</td>
<td>PA high temperature resistant</td>
</tr>
<tr>
<td>PBT</td>
<td>Polybutylene terephthalate</td>
</tr>
<tr>
<td>PE</td>
<td>Polyethylene</td>
</tr>
<tr>
<td>PE-MD</td>
<td>PE metal detectable</td>
</tr>
<tr>
<td>POM</td>
<td>Polyoxymethylene/Polyacetal</td>
</tr>
<tr>
<td>POM-CR</td>
<td>POM cut resistant</td>
</tr>
<tr>
<td>POM-HW</td>
<td>POM highly wear resistant</td>
</tr>
<tr>
<td>POM-HC</td>
<td>POM highly conductive</td>
</tr>
<tr>
<td>POM-MD</td>
<td>POM metal detectable</td>
</tr>
<tr>
<td>PP</td>
<td>Polyethylene</td>
</tr>
<tr>
<td>PP-MD</td>
<td>PP metal detectable</td>
</tr>
<tr>
<td>PXX-HC</td>
<td>PXX self-extinguishing, highly conductive</td>
</tr>
<tr>
<td>TPC1</td>
<td>Thermoplastic copolyester</td>
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</tbody>
</table>

Belt material orientation chart

Every material has a unique combination of strengths. The following table provides an overview of all Siegling Prolink materials and their properties rated from 1 (bad) to 10 (good).

<table>
<thead>
<tr>
<th>Material</th>
<th>Belt pull capacity</th>
<th>Impact strength</th>
<th>Wear resistance</th>
<th>High temperature</th>
<th>Low temperature</th>
<th>Price</th>
<th>Direct food contact</th>
<th>Submerged in water</th>
<th>Metal detectable</th>
<th>Anti-static</th>
<th>Flame retardant</th>
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<tbody>
<tr>
<td>PE</td>
<td>2</td>
<td>8</td>
<td>2</td>
<td>3</td>
<td>9</td>
<td>9</td>
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<td>No</td>
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</tr>
<tr>
<td>PP</td>
<td>4</td>
<td>3</td>
<td>3</td>
<td>7</td>
<td>3</td>
<td>9</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>POM</td>
<td>8</td>
<td>4</td>
<td>7</td>
<td>6</td>
<td>7</td>
<td>7</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>POM-CR</td>
<td>8</td>
<td>6</td>
<td>7</td>
<td>6</td>
<td>7</td>
<td>7</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
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</tr>
<tr>
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<td>8</td>
<td>4</td>
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<td>8</td>
<td>6</td>
<td>7</td>
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</tr>
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<td>PE-MD</td>
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<td>7</td>
<td>2</td>
<td>3</td>
<td>9</td>
<td>6</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>PP-MD</td>
<td>4</td>
<td>3</td>
<td>3</td>
<td>7</td>
<td>3</td>
<td>8</td>
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<td>Yes</td>
<td>No</td>
<td>No</td>
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<td>3</td>
<td>7</td>
<td>3</td>
<td>2</td>
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<td>Yes</td>
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<tr>
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<td>3</td>
<td>7</td>
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<td>PXX-HC</td>
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<td>3</td>
<td>7</td>
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<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>TPC1</td>
<td>2</td>
<td>10</td>
<td>10*</td>
<td>5</td>
<td>5</td>
<td>2</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
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</table>

* for applications in abrasive particles
## Use of materials

<table>
<thead>
<tr>
<th>Application environment</th>
<th>Belt modules</th>
<th>Pins</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General conveying</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General conveyor (&gt;10°C/&gt;50°F)</td>
<td>PP</td>
<td>PP</td>
</tr>
<tr>
<td>Aggressive chemicals (strong acid etc.)</td>
<td>PP</td>
<td>PP</td>
</tr>
<tr>
<td>Impact and/or low temperature (&lt;10°C/&lt;50°F)</td>
<td>PE</td>
<td>PE</td>
</tr>
<tr>
<td>High load</td>
<td>POM</td>
<td>PBT</td>
</tr>
<tr>
<td><strong>Abrasive</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deboning and trimming</td>
<td>POM-CR</td>
<td>PBT</td>
</tr>
<tr>
<td>Wet, light load</td>
<td>PP</td>
<td>PBT</td>
</tr>
<tr>
<td>Wet, high load</td>
<td>POM</td>
<td>PBT</td>
</tr>
<tr>
<td>Dry</td>
<td>POM</td>
<td>PBT</td>
</tr>
<tr>
<td><strong>Increased temperature</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiling and steaming, up to 100°C / 212°F</td>
<td>PP</td>
<td>PP</td>
</tr>
<tr>
<td>Dry, high load up to 90°C / 194°F</td>
<td>POM</td>
<td>PBT</td>
</tr>
<tr>
<td>Wet, high load up to 90°C / 194°F</td>
<td>POM</td>
<td>POM</td>
</tr>
<tr>
<td>Dry up to 120°C (248°F), FDA/EU</td>
<td>PA</td>
<td>PBT</td>
</tr>
<tr>
<td>Dry up to 155°C (311°F), not FDA/EU</td>
<td>PA-HT</td>
<td>PA-HT</td>
</tr>
</tbody>
</table>

### Temperature ranges

![Temperature ranges graph](image)

- **Dry**
- **Humid**
- **Wet (submerged)**

- **PE**
- **PP**
- **POM**
- **PA**
- **PA-HT**
- **PBT**
HACCP requirements

New regulatory requirements are forcing food manufacturers to adopt increasingly stringent hygiene standards and sanitation 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.

Declaration of compliance

FDA/EU

Siegling Prolink modular belts made of the following materials are proven to 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:

<table>
<thead>
<tr>
<th>PE</th>
<th>LG</th>
<th>BK</th>
<th>LB</th>
<th>BL</th>
<th>DB</th>
<th>UC</th>
<th>BG</th>
<th>OR</th>
</tr>
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<tbody>
<tr>
<td>●</td>
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<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
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</tr>
<tr>
<td>PP</td>
<td>●</td>
<td>●</td>
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<td>●</td>
<td>●</td>
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<td>●</td>
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</tr>
<tr>
<td>POM-CR</td>
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<td>●</td>
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<td>●</td>
<td>●</td>
<td>●</td>
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</tr>
<tr>
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<td>●</td>
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</tr>
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<tr>
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</tr>
<tr>
<td>TPC</td>
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<td>TPE R8</td>
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<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

Colors*:
- BL = Blue
- BG = Beige
- BK = Black
- DB = Dark blue
- LB = Light blue
- LG = Light gray
- OR = Orange
- UC = Uncolored
- WT = White

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

Halal

All Siegling POM Prolink modular belts are certified as being compliant with Halal regulations by IFRC Asia (member of the World Halal Council).
Committed staff, quality oriented organization 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 2,500 people. Our products are manufactured in ten 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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