

**Your partner for
production safety**

Advanced fabrics coated
in PTFE and silicon rubber



Fabrication Options

Splices

Various splices are available depending on your unique requirements. Metallic, non-metallic, and endless splices can be specified.

Metallic Splices

Chiorino offers alligator & clipper splices. These splices are the most durable and easy to use. Belts can be installed without taking machinery apart. A coverflap can be added to these splices to reduce mark-off and heat transfer to your material.



Clipper Lacing



Alligator Lacing

Non-Metallic Splices

A castellated splice, smartloop splice or peek lacing are ideal when metal lacing cannot be used. All are durable and flexible. The smartloop or peek lacing should be chosen when maximum airflow is necessary.



Castellated Splice



Peek Lacing



Smart-loop Splice

Endless Splices

Butt splices, overlap splices and scarfed splices are all made endless in our factories. Typical splices would be 25mm x 90°, 50mm x 67.5° or 75mm x 45°. These splices can be left open to be heat-sealed on your machine by your operators using welding materials and equipment. Alternatively, our On-Site Fitting Team can come to your premises to weld those particularly challenging joints.



Scarfed Splice



Butt Splice



Overlap splice

Edge Reinforcements

Belts can be supplied with strips of heat-sealed fabric on one or both edges. This reinforcement serves a dual purpose;

it reduces fraying of belt edges which rub on guiding rollers and it also provides the strongest possible anchor for guiding studs and eyelets. Edge reinforcement is standard for belts with studs or eyelets and for open-mesh belts. It typically consists of a 25mm wide film or fabric strip heat-sealed to one or both edges of the belt. The fabric edge strips can also be sewn for extra strength.



Heat-sealed
Fabric Edge



Sewn & Sealed
Fabric Edge



TFE-Film Edge,
Heat-Sealed

Tracking & Guiding Devices

Chiorino offers a variety of options to guide belts on your machine. These devices can be placed on one or both edges of your belts.

- Nickel studs are available with an external diameter of 4.5mm or 10mm.
- Nickel plated brass eyelets are offered with internal diameters of 6mm and 10mm.
- A Kevlar guide with a 5mm square profile is available to assist with tracking.



Guide Studs



Eyelets



Kevlar® Guide

Two-Ply Belts

Two-ply belts are constructed of two plies of PTFE-Glass, laminated together with staggered splices. This provides a smooth, continuous thickness along the entire belt length which guarantees a uniform seal in packaging and heat-sealing applications. These belts are typically available in widths of 12,5mm up to 40mm.

Laminated Belts

Chiorino also offers a range of laminated two, three and four ply belts which are far superior to woven endless belts due to lateral stability and exceptional tracking. The belts are stronger and harder wearing than standard fusing belts, with a smoother top surface and a super smooth joint for lowest mark off, next to seamless belts.

Typical Values

	Part Number	Thickness μ	Coated Weight g/m ²	Tensile Strength N/5cm (Warp)	Tear Strength N/5cm (Warp)	Material	Temperature Resistance
Packaging	I-03	70	135	1000	15	Glass Fabric	-73 +260
	S-03-1	73	146	1000	15	Glass Fabric	-73 +260
	P0-7-3	210	271	2000	150	Glass Fabric	-73 +260
	PO-11	330	390	2800	200	Glass Fabric	-73 +260
	P-05	125	255	1800	50	Glass Fabric	-73 +260
	P-06	140	296	1600	45	Glass Fabric	-73 +260
	P-10-3	235	490	2500	50	Glass Fabric	-73 +260
	S-24	560	760	3500	N/A	Glass Fabric	-73 +260
	S-30	1000	460	2000	N/A	Glass Fabric	-73 +260
Food Processing*	P-11-3	260	550	2800	30	Glass Fabric	-73 +260
	S-10	260	550	2800	30	Glass Fabric	-73 +260
	P-11-3 BROWN	260	550	2800	30	Glass Fabric	-73 +260
	9119-3 FG BLACK	265	650	2800	30	Glass Fabric	-73 +260
	COOK 10 RED	280	600	2800	30	Glass Fabric	-73 +260
	MASTER 10 BLUE	280	600	2800	30	Glass Fabric	-73 +260
MASTER 10 BLACK	280	600	2800	30	Glass Fabric	-73 +260	
Rubber Extrusion / Carpet Bonding*	I-10	220	455	2800	30	Glass Fabric	-73 +260
	S-14	340	680	3800	60	Glass Fabric	-73 +260
	S-27	675	1085	4000	100	Glass Fabric	-73 +260
	P-27	680	1200	4000	100	Glass Fabric	-73 +260
	S-27 MG	800	1085	4500	65	Glass Fabric	-73 +260
	P-27 SMOTH	640	1000	4500	90	Glass Fabric	-73 +260
	P-35	850	1380	6000	300	Glass Fabric	-73 +260
Screenprinting	1X1 GG	700	445	1700	N/A	Glass Fabric	-73 +260
	4X4 GG	1000	460	2000		Glass Fabric	-73 +260
	4X4AS	1000	460	1600		Glass Fabric	-73 +260
	4X4 K	780	320	4200		Aramid Fabric	-73 +180
	4X4 KG	1100	644	5000		Aramid / Glass Fabric	-73 +180
	4X4 BLUE	1200	740	2100		Glass Fabric	-73 +260
	8X8 GG	1200	630	2800		Glass Fabric	-73 +260
Textiles	P-11-3 A	230	490	2800	30	Glass Fabric	-73 +260
	S-14 A	340	680	3800	60	Glass Fabric	-73 +260
	S-20	460	880	4000	90	Glass Fabric	-73 +260
	1X1 GG	620	520	3000	N/A	Glass Fabric	-73 +260
	2X2 GG	700	445	1700	N/A	Glass Fabric	-73 +260
	4X4 GG	1000	460	2000	N/A	Glass Fabric	-73 +260
	4X4 K	780	320	4200	N/A	Aramid Fabric	-73 +180
	4X4KG	1100	644	5000	N/A	Aramid / Glass Fabric	-73 +180
	2X4 K	1000	400	6400	N/A	Aramid Fabric	-73 +180

These values listed are typical.

*Products in this series are readily available with abrasion resistant coating.

Applications

There are numerous applications for PTFE belting materials. Following are examples of uses for PTFE coated fiberglass conveyor belts. If you think that a Taconic PTFE or SRC coated belt is right for your application, please call our sales or customer service staff to discuss your needs.



Rubber Extrusion / Carpet Bonding

Non-stick, high temperature PTFE coated belts are a perfect solution for the carpet industry. Carpet surfaces are bonded to backing material on a PTFE belt, which pulls the carpet through a curing oven. Several grades of material are available depending on your bonding system and required undersurface topography. Perforation of belts is available upon request to facilitate the addition of profile to the underside of carpet mats.



Food Processing

PTFE belts are ideal in food processing applications. Belts for the food processing industry have been specifically engineered to resist grease penetration, increasing belt life which translates into less downtime. Cooking applications include precooking meats such as steak, chicken, and bacon and precooking tortillas, pizza crusts and eggs.



Packaging

PTFE-Glass and SRC-Glass belts are used widely in the packaging industry. Open mesh belts are used to convey film wrapped packages through shrink tunnels while two ply belts are used to pull objects through a heat-sealing process.

Screenprinting

Open mesh belts are chosen in the screenprinting industry for their open construction, which facilitates airflow and the drying and curing of inks. They are also chosen for their ability to withstand high drying temperatures. An anti-static or blue belt can be used to help withstand UV rays.



Textiles

Due to the non-stick nature of PTFE coated glass belts, they are a natural in textile applications. Pictured: non-woven materials are pressed and laminated on PTFE belts with very little mark off. PTFE mesh belts are used in textile drying applications. PTFE coated Kevlar® & Kevlar®/Glass are chosen for their excellent dimensional stability to assist in tracking and to withstand higher line speeds.



Material Options

Fabric Grades

Most belts are made of standard belt fabric although premium grade fabrics are preferred where fabric weave impression is undesirable or where sticky and gummy materials are being conveyed. Mechanical grade and economy grade fabrics are preferred where economy is more important than maximum resistance to chemicals or solvents. Crease and tear resistant belts are suggested for higher speeds. Tight weave porous belts and open weave mesh belts are specified for applications where porosity is required as in drying applications or microwave cooking ovens.

Premium

The smoothest products we produce, these fabrics have a heavy coating of PTFE for easiest release, highest chemical resistance and highest electrical strength.

Standard

The most widely used PTFE-Glass belts. Slightly less PTFE than premium grade belts, but all the mechanical strength.

Mechanical

Slightly less PTFE than standard belt materials. Used in applications where increased surface texture is useful.

Crease & Tear Resistant

Possesses most of the attributes of standard PTFE-Glass, but with substantially higher tear strength.

Semi-Conductive

Possesses most of the attributes of standard PTFE-Glass, but with a special treatment to reduce static build up.

Porous

Lightly coated porous belts allow outgassing of volatile products. Also useful in promoting drying by allowing airflow through the belt.

SRC-Glass

Silicone coated fiberglass fabrics offer exceptional flexibility and good release characteristics. Available in one or two side coated in red or white.

How To Order a PTFE Belt

To help you determine the best belt for your unique application an experienced customer service representative is always on hand to discuss your belting needs.

When possible, have the following information available:

- *Dimensions of belt: width & length
- *Desired splice, edge reinforcement and tracking devices, where needed
- *Roller size & type
- *Any special construction or instructions concerning the fabrication. In some cases of complex fabrication, a print may be requested.

Choosing The Right Material

There are a number of factors to keep in mind when choosing the belting material for your application.

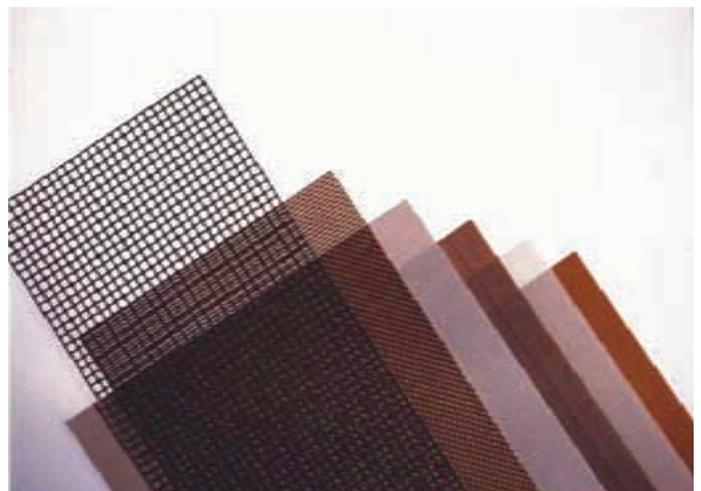
Temperature Range - Our PTFE coated glass fabrics have the capabilities of withstanding -70°C - $+260^{\circ}\text{C}$ constant operating temperatures whilst our silicone coated glass fabrics can withstand $+230^{\circ}\text{C}$ and PTFE coated Kevlar® $+180^{\circ}\text{C}$.

Pliability - If the material is to track around pulleys that drive the belt, the diameter of the pulley is critical. The smaller the roller the more flexible the belt must be. Thinner materials (0.254mm and under) are more pliant than the heavier coated fabrics.

Release Qualities - The surface finishes range from a rough, semi-porous finish to a super smooth surface. The products being processed and/or the required impression on the finished product will determine the required surface finish.

Strength - Other options to be considered are breaking, tensile, and tear strength. How much of a load the belt carries, how fast it moves, and how tightly it will be tensioned all must be considered.

Abrasion Resistance - We have recently introduced a range of PTFE coated products with an increased resistance to abrasion. This characteristic is key in application where aggressive materials can quickly wear away the coating and lead to delamination. The resultant longer belt lifetime will increase machine output and efficiency.



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