

Taconic PTFE Fiberglass & Silicone Rubber Coated Belts

Taconic manufactures PTFE and silicone rubber coated fiberglass belts that offer exceptional release properties, outstanding flexibility and superior temperature resistance. Our experienced team will assess your application and find the right belting solution that offers high performance and maximum value.

Choosing the Right Belting Material

Key factors to consider:

► Temperature Range

Our PTFE and silicone rubber coated belts can withstand continuous temperatures of -100 °F to 500 °F (-73°C - 260°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. Taconic's thinner materials (0.010" and under) are more pliable than heavier coated fabrics.

► Release Qualities

The surface finishes of our belts range from a rough, semi-porous finish to a super smooth surface.

► Strength (Tensile / Tear)

Tensile and tear strength must be suitable for the load weight carried by the belt, its speed and tension.

► PVC Welding

For most conveying applications, .010 - .014" belts are preferred. Lighter, thinner belts (.003 - .006") are employed in heat sealing applications that require superior flexibility and heat transfer properties, particularly in two-ply applications. Heavier, thicker belts (.015 - .042") are used in high strength/load carrying applications.

Applications

- Food Processing
- Packaging
- Screen Printing
- Apparel
- Plastic Film Lamination
- Heat Sealing
- Rubber Processing
- Textiles
- Carpet Fabrication

Features

- Durability
- Temperature Resistance
- Chemical Resistance
- Optimal Release, even for wheat-based food products
- Dimensional Stability



Fabric Grades

► Premium

These fabrics have a heavy coating of PTFE to provide the easiest release and the highest chemical resistance and electrical strength. Preferred for applications where fabric weave impression is undesirable and sticky materials are conveyed.

► Standard

Offering a smooth surface and excellent nonstick properties, this grade is the most widely used PTFE-Glass belt.

► Mechanical & Economy

Light PTFE coating offers economy in applications where increased surface texture is useful.

► Crease & Tear Resistant

This grade offers substantially higher tear strength for high speed applications.

► Anti-Static/Conductive

Specially treated fabric reduces static build-up.

► Porous/Open Mesh

These materials allow outgassing of volatile products and promote drying by allowing airflow through the belt. These belts are ideal for drying, curing and bonding inks, pigments and powders to fabrics and non-woven materials.

► Silicone Rubber Coated Fiberglass

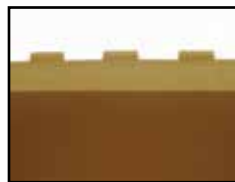
These belts offer excellent release properties up to 500 °F, superior abrasion, flex and chemical resistance and outstanding dielectric properties in demanding environments. Silicone belts are ideal in applications where high flexibility and a high slip coefficient are required. Available coated on one or two sides in red or white.

Fabrication Options

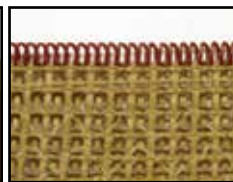
Splices Taconic offers metallic, non-metallic, endless and open splices to accommodate your unique requirements.

► Non-Metallic Splices

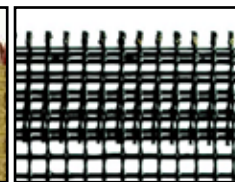
When metal lacing cannot be used, a fabric notched splice, peek lacing, self loop or smart loop splice offers durability and flexibility. A smart loop splice or peek lacing is recommend when maximum airflow is needed.



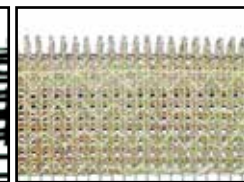
Fabric Notched Splice



Peek Lacing



Self Loop Splice



Smart Loop Splice

► Metallic Splices

Alligator and clipper splices are the most durable and easy to use. Belts can be in-stalled without taking machinery apart and a cover-flap can be added to these splices to reduce mark-off and heat transfer to your material.



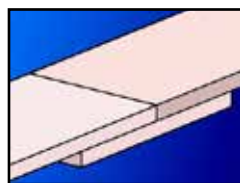
Alligator Lacing



Clipper Lacing

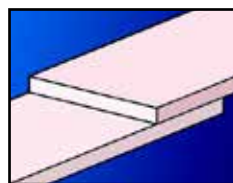
► Endless Splices

Material ends are butted together and reinforced with a durable backing strip that provides a smooth working surface.



Butt Splice

Material ends are cut straight or diagonally, overlapped and heat sealed, providing a very durable seam.



Overlap Splice

Belt ends are tapered to minimize thickness at the splice area, overlapped and heat sealed.



Scarfed Splice

Edge Reinforcements

Taconic belts can be supplied with strips of heat-sealed film or fabric on one or both edges of your belt. 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 pins, snaps and grommets. Edge reinforcement is standard for belts with pins or grommets and for open mesh belts. After heat sealing, fabric edge strips can also be sewn for additional strength.

▶ Heat Sealed PTFE Film Edge

PTFE film strips are heat sealed to the top and bottom edges of the belt for a 1/2" or 1" (standard) surface. The PTFE film is available in 3 mil black or clear and 10 mil tan (1" surface only).



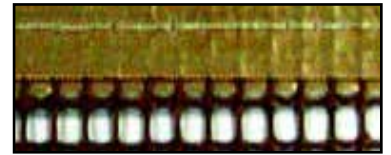
▶ Heat Sealed Fabric Edge

Six mil fabric is heat sealed to the top and bottom edges of the belt for a 1" (standard) or 2" surface. Fabric edges are available either tan or black.



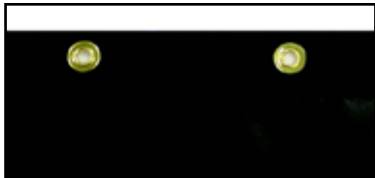
▶ Fabric Edge, Sewn & Sealed

For extra reinforcement, our 6 mil heat-sealed fabric edge can also be sewn if desired. This reinforcement is commonly used on open mesh belting.



Tracking & Guiding Devices

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



▶ Grommets

Nickel plated brass grommets are offered in three sizes: 0.1875" I.D., 0.3125" I.D. and 0.375" I.D.



▶ Guide Snaps

Nickel plated brass snaps are available in .37" diameter and .12" deep.



▶ Silicone Rubber Guides

A silicone rubber guide is also available to assist with accurate tracking.



▶ Kevlar® Guide Cord

4x4mm wide woven Kevlar® reinforced guide cord.

Two-Ply Belts

Two plies of PTFE coated fiberglass are laminated together with staggered splices to provide a smooth, continuous thickness along the entire belt length. This guarantees a uniform seal in packaging and heat sealing applications. The belts are typically available in widths of 1/2" to 3".



Taconic offers belts in custom widths to meet your specific requirements.

For added flexibility, belting materials are also supplied open ended for customers who require this for installation. Hand-held heat sealing irons are available in two sizes for on-site belt splicing. Please contact customer service for more information.

Ordering Your Taconic Belt

Please have the following information available:

- ▶ Dimensions of belt (width and length)
- ▶ Desired splice, edge reinforcement and tracking devices, where needed.
- ▶ Drive pulley recommendations: Minimum drive pulley diameter is 6" for heavyweight belting and 3" for all other materials.
- ▶ Special instructions concerning belt fabrications (in cases of complex fabrication, a print may be requested)



Description	Part Number	Nominal Thickness (inches)	Coated Weight (lbs./sq. yd.)	Tensile Strength Warp/Fill (Typical) (lbs./in.)
Open Mesh Belting - PTFE / Glass				
Glass Tan	8195	0.019	0.95	200/190
Glass Black	8303	0.035	0.90	225/225
Glass Brown	8308	0.035	0.90	225/175
Glass Tan	A970	0.033	0.89	225/175
Open Mesh Belting - PTFE/Kevlar® & Kevlar®/Glass				
Kevlar® Gold	8305K	0.035	0.62	450/350
Kevlar® Black AS	8305KAS	0.035	0.60	450/350
Kevlar® Glass Brown	A1087	0.039	0.67	600
Kevlar® Glass Gold	8305KG	0.035	1.25	450/600

*The data herein are averages based on the authoritative testing of several lot numbers. This information is intended for comparison purposes only.



Description	Part Number	Nominal Thickness (inches)	Coated Weight (lbs./sq. yd.)	Tensile Strength Warp/Fill (Typical) (lbs./in.)	Tear Strength Warp/Fill (Typical) (lbs.)
Premium Smooth	8039	0.003	0.28	75 / 70	3.25 / 2.5
	A952	0.0031	0.30	92 / 62	2.1 / 0.97
	TL-7100	0.0075	0.71	185 / 145	12.5 / 8.0
	8109	0.001	1.00	300 / 175	10.0 / 8.0
	A1139	0.0105	1.00	270 / 165	10.5 / 6.0
Premium Textured	A1048	0.0245	2.16	565 / 545	18.0 / 17.0
	8279	0.027	2.04	440 / 520	25.0 / 15.0
Standard Smooth	8038	0.0028	0.26	95 / 70	3.25 / 2.5
	8108	0.0090	0.92	285 / 185	12.0 / 7.0
	8148	0.0135	1.35	400 / 300	15.0 / 15.0
Standard Textured	8208	0.02	1.52	375 / 355	17.0 / 15.0
	8278	0.0255	1.83	400 / 500	25.0 / 20.0
Economy Textured	8226	0.0225	1.33	455 / 370	100.0 / 100.0
	8356	0.034	2.10	850 / 650	50.0 / 60.0
Porous	8115	0.013	0.77	250 / 215	25.0 / 15.0
Crease & Tear Resistant Smooth	8054	0.0047	0.45	160 / 160	6.5 / 5.5
	8064	0.0055	0.50	175 / 150	9.0 / 7.5
Crease & Tear Resistant Textured	8274	0.0245	1.83	450 / 625	60.0 / 80.0
Tac-Black™	8103	0.0095	0.92	335 / 210	14.0 / 7.0
	8143	0.0148	1.36	410 / 320	10.4 / 7.8
Tac-Black™ Anti-Static	8103AS	0.0095	0.90	280 / 210	8.5 / 8.0
	8143AS	0.0140	1.36	400 / 335	11.5 / 7.5

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