

Tear Resistant PTFE Coated Belt Characteristics

Tear Resistant Belts are engineered to retain the distinctive properties of PTFE; however, by adding a glass fabric to the matrix, Innotec is able to obtain the added benefits of dimensional stability, excellent tensile strength and extremely low elongation (<1%). Tear Resistant Belts have received USDA approval for food processing and handling, and are FDA compliant (21 CFR177.1550). In addition, the Tear Resistant belts can operate in temperatures from -400°F (-240°C) under static conditions and -100°F (-73°C) under dynamic conditions up to 550°F (288°C).

Typical Applications

Packaging:

- Rotary band sealing
- Form fill and seal
- Over wrapping (Tray packing)
- Side and End sealing
- Bundling

Food Products:

- Manufacture of tortillas, pizza crusts and pitas
- Baking and cooking of bakery goods and confectionary
- Cooking and grilling of meat, poultry, fish and vegetables
- Cryogenic/flash freezing of meat, poultry, fish and vegetables
- Manufacture of flavorants

Printing and Textiles:

- Heat transfer press sheets
- Fabric lamination
- Garment fusing
- Processing of natural, synthetic, woven, non-woven, and knitting fabrics

Pulp and Paper:

- Tissue side sealing

Polymer Processing:

- Curing and drying of rubber, sponge, foams, and polyurethane glues
- Manufacture of rubber and vinyl (PVC) backed carpet mats
- Processing of polyethylene
- Cooling of bitumen backed tiles
- Curing of ceramic tiles

Building Products:

- Manufacture of specialty wood-based products

Chemical Processing:

- Tank seals and contaminant barriers
- Gaskets, membranes, seals & diaphragms
- Corrosion resistant chute, drum, and hopper liners
- Protective curtains and aprons

Other:

- Production or recycled plastic sheet

Styles Available

Nominal Thickness	Weight (lbs/sq yd)	Tensile* (lbs/in. of width)	Edge Tear Warp (grams)	Edge Tear Fill (grams)	Recommended Min. Pulley Dia.	Maximum Widths (in.)
.003"	0.27	32	760	500	3"	80
.005"	0.48	112	1600	1400	3"	80
.006"	0.54	112	1600	1400	3"	80
.010"	0.94	160	2800	2200	3"	80
.028"	Proprietary	Proprietary	>6400	>6400	10"	84

Please note: Additional thickness and styles available upon special order and lead times may vary for different styles and widths.

*Disclaimer: All figures provided in the above table are based upon ASTM D 4969-97, the Standard Specification for Polytetrafluoroethylene (PTFE) Coated Glass Fabric. The above PIW values are based upon the ASTM D828 test method and are not actual values of Innotecs' materials. The above tensile values are 80% of the figures provided in Table 6 of specification D579. Innotec states that its actual tensile will be greater than the above material specification and that actual tensile values will be provided upon request. Edge Tear values are based upon ASTM D1424 (Elmendorf Tearing Test) and are average values that can vary.