

Tear Resistant PTFE Coated Fabric Characteristics

Tear Resistant Fabrics 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, durability, excellent tensile strength and extremely low elongation (<1%). Tear Resistant Fabrics have received USDA approval for food processing and handling, and are FDA compliant (21 CFR177.1550). In addition, the Tear Resistant fabrics 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:

- Poly bag manufacturing
- Impulse/L-Bar sealing
- Form fill and seal
- Over wrapping (Tray packing)
- Side and End sealing
- Blister tray covers
- Vacuum pack machines

Food Products:

- Non-stick baking, cooking and drying
- Food dehydration
- Smoking of meat and fish
- Flash-freezing meat, poultry and fish
- Oven and microwave liners for home and industrial kitchens

Printing and Textiles:

- Heat transfer presses
- Silkscreen table covers
- Fabric lamination
- Garment fusing

Polymer Processing:

- Vulcanizing presses
- Rubber curing presses
- Manufacture of filter media

Building Products:

- Manufacture of specialty wood-based products
- Vinyl window manufacturing

Chemical Processing:

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

Aerospace, Communications & Military:

- Composite mold release/bonding
- Vacuum bagging

Other Applications:

- Insulation and protection
- Release sheets/separation materials
- Printed circuit board manufacturing
- Wire and cable insulation and protection
- Manufacture of metalized balloons

Additional applications exist. Contact Innotec of WI, Inc. for more specific information.

Styles Available

Nominal Thickness	Weight (lbs/sq yd)	Tensile Warp* (lbs/sq in)	Tensile Fill* (lbs/sq in)	Edge Tear Warp (grams)	Edge Tear Fill (grams)	Full Widths (inches)
.003"	0.27	56	32	760	500	40*, 80*
.005"	0.48	100	112	1600	1400	40*, 80*
.006"	0.54	100	112	1600	1400	40, 80*
.010"	0.94	200	160	2800	2200	40*, 60*, 80*
.028"	Proprietary	Proprietary	Proprietary	>6400	>6400	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 tensile 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.