

Saint-Gobain Chemfab® 500F PTFE Coated Beta Fiberglass Conveyor Belting

Category : Ceramic , Glass , Glass Fiber

Material Notes:

Description: General Notes on Saint Gobain Belting Products: Saint Gobain Performance Plastics developed its belting materials for applications that require superior release characteristics, permeability for rapid drying, dimensional and thermal stability, and the dynamic strength to stand up to the most rigorous operating conditions. The unique behavior of the materials results in a product that is more practical and cost-effective than conventional belting materials. **Release Properties:** The release characteristics of PTFE are superior to those of any other high-temperature material. This non-stick property is retained over a full range of operating temperatures. **Permeability:** Our belting combines a maximum amount of open area with good mechanical strength. The result is a very high level of controlled air flow through the belt, maximizing the rate of drying. **Dimensional Stability:** The woven reinforcement results in an elongation of approximately 1% under normal mechanical loading, even at temperatures of 550°F. Length distortion is exceptionally low, while width rigidity and stability are enhanced by the high modulus of the reinforcement. **Thermal Stability:** Chemfab® brand belting may be used continuously at temperatures up to 550°F without reducing its performance. **Dynamic Stability:** Our belting has been subjected to static and dynamic tests which indicate that it can withstand all normal operating conditions affecting service life. **Chemical Resistance:** PTFE surfaces are unaffected by most chemicals and solvents. **Notes on 500F PTFE Coated Beta Fiberglass Conveyor Belting:** Chemfab® 500F utilizes a tightly woven Beta® fiberglass substrate, lightly coated with PTFE. Its primary use is for aerospace applications (e.g., space shuttle, international space station). For applications that require electrical static dissipation, Saint-Gobain produces Chemfab® 500GW. This product is silicone free. The substrate is Beta fiberglass and the coating material is PTFE (PTFE = polytetrafluoroethylene). All data based on a 0.008 inch test sample. Information provided by Saint Gobain Performance Products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Saint-Gobain-Chemfab-500F-PTFE-Coated-Beta-Fiberglass-Conveyor-Belting.php

Physical Properties	Metric	English	Comments
Density	1.268 g/cc	0.04582 lb/in ³	

Mechanical Properties	Metric	English	Comments
Elongation at Break	>= 2.0 %	>= 2.0 %	Fill/Transverse direction
	>= 6.5 %	>= 6.5 %	Warp/Longitudinal direction
Tear Strength Test	7.0	7.0	Lbs./In. Propagation Tear Strength in fill/transverse direction
	10	10	Lbs./In. for warp/longitudinal Propagation Tear Strength
Tear Strength	15.8 kN/m	90.0 pli	Tensile Strength (Fill)
	16.7 kN/m	95.0 pli	Tensile Strength (Warp)
Taber Abrasion, mg/1000 Cycles	>= 750	>= 750	

Optical Properties	Metric	English	Comments
Emissivity (0-1)	≥ 0.80	≥ 0.80	

Descriptive Properties	Value	Comments
Weight (oz/yd ²)	7.6	

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