Saint-Gobain ChemfabÂ® TCNÂ® 1590 Leno Weave Nomex/Fiberglass Belting Material

Category : Ceramic , Glass , Glass Fiber

Material Notes:

Description: General Notes on Saint Gobain ChemfabÂ® TCNÂ® Open Mesh Belting Products:TCN belting products are PTFE coated NomexÂ®, a high-temperature polyamide fiber that maintains its structural integrity over its entire range of operating temperatures. These belts were developed for applications requiring continuous operation, outstanding tracking and predictable dimensional stability. TCN will not shrink or stretch--not even by 2%--under normal operating tensions.Dimensional Stability: Width rigidity as well as length stability is maintained by TCN belting in continuous use at temperatures up to 500Â°F. Under normal operating tensions (3 to 10 pounds per inch of width), TCN holds its elongation and shrinkage to less than 2%.Release Properties: The release properties of TCN equal or exceed those of any other available belting material. The PTFE makes TCN have a low coefficient of friction.Chemically Resistant: The PTFE coating encapsulates the NomexÂ® belting carcass and enhances its useful service life.Dynamic Strength: TCN has durability coupled with low overall belt weight, allowing optimal production speed with decreased power requirements.Flex Fatigue Resistant: The flex fatigue resistance of Nomex--the lengthwise strength yarn in TCN belting--is designed for high temperature use. This flex fatigue resistance is maintained throughout the entire operating range of TCN belting.Temperature Resistant: TCN belting can be operated continuously at temperatures up to 500Â°F and will still maintain 100% of its operational profile.Low Thermal Mass: TCN belting (including the seam areas) quickly dissipates heat with low heat sink properties.Fabrication Technology: Saint-Gobain Performance Plastics belt seams have been specifically engineered to reduce the flex fatigue failure. Substantially reduced flex fatigue means longer belt life.Specific Notes on TCNÂ® 1590 Belting Material: TCN 1590 is an open mesh, Leno weave belting material designed for use in forced hot air dryers. The warp yarns are NomexÂ®, which allows the belt to conform to machine irregularities. The substrate is Leno weave, with NomexÂ® in the warp/longitudinal direction and fiberglass in the fill/transverse direction. The substrate is coated in PTFE (PTFE = polytetrafluoroethylene). All data based on a 0.07 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-TCN-1590-Leno-Weave-NomexFiberglass-Belting-Material.php

Physical Properties	Metric	English	Comments
Density	0.2917 - 0.3242 g/cc	0.01054 - 0.01171 lb/inÂ³	

Mechanical Properties	Metric	English	Comments
Elongation at Yield	<= 2.0 %	<= 2.0 %	Value given for Elongation at a loading of 40 lbs/in
Tear Strength	26.3 kN/m	150 pli	Tensile Strength (Warp)
	52.6 kN/m	300 pli	Tensile Strength (Fill)

Descriptive Properties	Value	Comments
Weight (oz/yd^2)	16.2	

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