

Saint-Gobain Chemfab® TCK® 1590 High-Strength Leno Weave Open Mesh Belting Material

Category : Ceramic , Glass , Glass Fiber

Material Notes:

Description: General Notes on Saint Gobain Chemfab® TCK® Open Mesh Belting Products: TCK belting products are PTFE (PTFE = polytetrafluoroethylene) coated Kevlar®, a high-temperature aramid fiber that offers an extremely high strength-to-weight ratio. TCK is an excellent fabric for use in high moisture environments, for applications subjected to severe flexing, or for when added durability is required. **Dimensional Stability:** The Kevlar® base of TCK keeps stretch or shrinkage to less than 1% under normal operating tensions (3 to 10 pounds per inch of width) and temperatures up to 500°F. TCK belting has excellent resistance to flex fatigue. **Release Properties:** The release properties of TCK exceed those of any other available belting material. TCK has a low coefficient of friction. **Chemically Resistant:** The PTFE coating encapsulates the Kevlar® belting carcass and enhances its useful service life. **Light Weight:** The inherent strength of the Kevlar® filament provides durable belting at a fraction of the weight of other materials. Less power is required to move TCK belting (and the products moved). **High Strength:** Kevlar®, the filament base of the belting carcass, is stronger than steel on a pound-for-pound basis. **Flex Fatigue Resistant:** The strength of TCK, combined with its excellent flex fatigue properties, means TCK belting can be used on small pulley diameters for a long in-use life span. **High Thermal Capability:** At temperatures of up to 500°F, TCK belting continues to maintain its high performance profile. **Low Thermal Mass:** TCK 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. **Notes on TCK® 1590 Leno Weave Open Mesh Belting Material:** TCK 1590 is a high strength belting product. It is a Leno weave, open mesh material intended for use in force hot air dryers. Substrate is Kevlar®. The substrate is coated with PTFE (PTFE = polytetrafluoroethylene). All data based on a 0.03 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-TCK-1590-High-Strength-Leno-Weave-Open-Mesh-Belting-Material.php

Physical Properties	Metric	English	Comments
Density	0.2671 - 0.3114 g/cc	0.009647 - 0.01125 lb/in ³	

Mechanical Properties	Metric	English	Comments
Elongation at Yield	<= 1.0 %	<= 1.0 %	Value given for Elongation at a loading of 40 lbs/in
Tear Strength	61.4 kN/m	350 pli	Tensile Strength (Fill)
	70.1 kN/m	400 pli	Tensile Strength (Warp)

Descriptive Properties	Value	Comments
Weight (oz/yd ²)	6.5	

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