

Saint-Gobain Chemfab® TCK® 1000 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® 1000 High-Strength Open-Mesh Belting Material:** This product is used primarily in forced hot air dryers that convey heavy or sharp materials. This product is also recommended for dryers that exert high mechanical stresses on the belt (e.g. vibration). Substrate is Kevlar® in the warp (longitudinal) and fiberglass in the fill (transverse). The substrate is coated with PTFE (PTFE = polytetrafluoroethylene). All data based on a 0.062 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-1000-High-Strength-Leno-Weave-Open-Mesh-Belting-Material.php

Physical Properties	Metric	English	Comments
Density	0.3553 g/cc	0.01284 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	70.1 kN/m	400 pli	Tensile Strength (Fill)
	78.9 kN/m	450 pli	Tensile Strength (Warp)

Descriptive Properties	Value	Comments
Weight (oz/yd ²)	16.5	

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