

## Saint-Gobain Chemfab® TCK® 1589 High-Strength Plain 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. All data based on a 0.018 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-1589-High-Strength-Plain-Weave-Open-Mesh-Belting-Material.php](http://www.lookpolymers.com/polymer_Saint-Gobain-Chemfab-TCK-1589-High-Strength-Plain-Weave-Open-Mesh-Belting-Material.php)

Physical Properties	Metric	English	Comments
Density	0.460 g/cc	0.0166 lb/in <sup>3</sup>	

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)
	61.4 kN/m	350 pli	Tensile Strength (Warp)

Descriptive Properties	Value	Comments
Weight (oz/yd <sup>2</sup> )	6.2	

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