

Ensinger Tecapeek® ST PolyEtherKetoneEtherKetoneKetone, Unreinforced

Category : Polymer , Thermoplastic , Polyketone , Polyetherketoneetherketoneketone (PEKEKK), Wear Resistant

Material Notes:

TECAPEEK® ST is a multipurpose semi-crystalline material from the polyaryletherketone family based on PEKEKK that features improved mechanical properties at higher temperatures. The benefits of TECAPEEK® ST compared to standard TECAPEEK® are that of a higher heat distortion temperature (HDT), better strength and stiffness of machined components and a higher flexural strength combined with a higher glass transition point. Excellent mechanical properties at higher temperatures High heat distortion temperature Excellent chemical resistance Low moisture absorption Electrically insulating Easy to machine (unfilled) Good dimensional stability High purity Target industries for TECAPEEK® ST are Oil and Gas, Semiconductor, Chemical and Automotive, crude petroleum extraction and drilling. Possible applications include turbocharger impellers, seal rings and other down hole parts, gears, and test sockets. Information Provided by Ensinger Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-Tecapeek-ST-PolyEtherKetoneEtherKetoneKetone-Unreinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	D792
Density	1.30 g/cc	0.0470 lb/in ³	D792
Moisture Absorption at Equilibrium	0.050 %	0.050 %	RH 50%; D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	130 MPa	18900 psi	D638
Elongation at Yield	11 %	11 %	ISO527
Tensile Modulus	4.40 GPa	638 ksi	1mm/min; D638
Charpy Impact	5.80 J @Temperature 22.8 °C	4.28 ft-lb @Temperature 73.0 °F	ISO179

Thermal Properties	Metric	English	Comments
CTE, linear	49.0 μm/m-°C	27.2 μin/in-°F	E831
Melting Point	387 °C	729 °F	D3418
Maximum Service Temperature, Air	260 °C	500 °F	
Deflection Temperature at 1.8 MPa (264 psi)	172 °C	342 °F	D648
Glass Transition Temp, Tg	162 °C	324 °F	D3418

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00 \times 10^{15}$ ohm-cm	$\geq 1.00 \times 10^{15}$ ohm-cm	IEC60093
Surface Resistivity per Square	$\geq 1.00 \times 10^{13}$ ohm	$\geq 1.00 \times 10^{13}$ ohm	IEC60093

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