

Ensinger Tecapeek® XP-99 Compression Molded PEEK Compound, Bearing Grade Material with 7% Graphite, 8% PTFE, and 15% Carbon Fiber

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Carbon Fiber Filled , Polyetheretherketone, PEEK, PTFE-Filled

Material Notes:

Ensinger Special Polymers offers over twenty different VICTREX® PEEK blends to choose from and has the capability to blend custom compounds for specific applications. Compression molding results in lower amounts of scrap, uniform physical properties and fewer molded-in stresses. TECAPEEK is a high-performance engineering thermoplastic. This semi-crystalline material has a balance of high temperature mechanical properties, chemical and steam resistance, superior wear properties and processability which makes it unique. Applications Include: Bearings and Bushings Down-hole instrumentation Wear Rings Ball Valve Seats Electrical Components Back-up and V-Rings Piston Rings and Rider Bands Information provided by Ensinger Special Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-Tecapeek-XP-99-Compression-Molded-PEEK-Compound-Bearing-Grade-Material-with-7-Graphite-8-PTFE-and-15-Carbon-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	ASTM D792
Filler Content	30 %	30 %	
Water Absorption	0.070 % @Time 86400 sec	0.070 % @Time 24.0 hour	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	98	98	ASTM D785
Hardness, Shore D	88	88	ASTM D2240
Tensile Strength	84.8 MPa	12300 psi	ASTM D638
Elongation at Break	1.7 %	1.7 %	ASTM D638
	2.2 %	2.2 %	Flexural Strain; ASTM D790
Tensile Modulus	8.27 GPa	1200 ksi	ASTM D638
Flexural Strength	145 MPa	21100 psi	ASTM D790
Flexural Modulus	7.58 GPa	1100 ksi	ASTM D790
Compressive Strength	146 MPa	21200 psi	10% Deformation; ASTM D695
Compressive Modulus	3.45 GPa	500 ksi	ASTM D695
Shear Strength	71.0 MPa	10300 psi	ASTM D732

Izod Impact Notched Mechanical Properties	0.320 J/cm Metric	0.600 ft-lb/in English	ASTM D256 Comments
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Thermal Properties	Metric	English	Comments
Melting Point	343 °C	649 °F	DSC
Heat Distortion Temperature	>= 235 °C	>= 455 °F	ASTM D648
Glass Transition Temp, Tg	143 °C	289 °F	DSC

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 10000 ohm	<= 10000 ohm	ASTM D257

Descriptive Properties	Value	Comments
Color	Black	

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