Ensinger Tecapeek® XP-98 Compression Molded PEEK Compound, 30% Carbon Fiber

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Carbon Fiber 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-perfomance 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 BushingsDown-hole instrumentationWear RingsBall Valve SeatsElectrical ComponentsBack-up and V-RingsPiston Rings and Rider BandsInformation provided by Ensinger Special Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-Tecapeek-XP-98-Compression-Molded-PEEK-Compound-30-Carbon-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in³	ASTM D792
Filler Content	30 %	30 %	
Water Absorption	0.050 %	0.050 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Crystallinity	35 %	35 %	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	102	102	ASTM D785
Hardness, Shore D	93	93	ASTM D2240
Tensile Strength	126 MPa	18300 psi	ASTM D638
Elongation at Break	1.7 %	1.7 %	Flexural Strain; ASTM D790
	2.2 %	2.2 %	ASTM D638
Tensile Modulus	9.65 GPa	1400 ksi	ASTM D638
Flexural Strength	210 MPa	30500 psi	ASTM D790
Flexural Modulus	11.0 GPa	1600 ksi	ASTM D790
Compressive Strength	179 MPa	26000 psi	10% Deformation; ASTM D695
Compressive Modulus	4.14 GPa	600 ksi	ASTM D695
Shear Strength	83.4 MPa	12100 psi	ASTM D732

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Metric	English	Comments
28.4 µm/m-°C	15.8 μin/in-°F	ASTM E831
343 °C	649 °F	DSC
>= 237 °C	>= 459 °F	ASTM D648
Metric	English	Comments
934 ohm-cm	934 ohm-cm	ANSI/ESD STM 11.12
<= 10000 ohm	<= 10000 ohm	ASTM D257
	343 °C >= 237 °C Metric 934 ohm-cm	343 °C 649 °F >= 237 °C >= 459 °F Metric English 934 ohm-cm 934 ohm-cm

Descriptive Properties	Value	Comments
Color	Black	

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