

Ensinger Tecapeek® XP-111 Compression Molded PEEK Compound, 50% 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-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-111-Compression-Molded-PEEK-Compound-50-Carbon-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	ASTM D792
Filler Content	50 %	50 %	
Water Absorption	0.13 % @Time 86400 sec	0.13 % @Time 24.0 hour	ASTM D570
Crystallinity	17 %	17 %	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	110	110	ASTM D785
Tensile Strength	129 MPa	18700 psi	ASTM D638
Elongation at Break	1.1 %	1.1 %	ASTM D638
	1.5 %	1.5 %	Flexural Strain; ASTM D790
Tensile Modulus	17.9 GPa	2600 ksi	ASTM D638
Flexural Strength	214 MPa	31000 psi	ASTM D790
Flexural Modulus	17.9 GPa	2600 ksi	ASTM D790
Compressive Strength	276 MPa	40000 psi	10% Deformation; ASTM D695
Compressive Modulus	4.90 GPa	710 ksi	ASTM D695
Izod Impact, Notched	0.742 J/cm	1.39 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Descriptive Properties		Value	Comments
Color		Black	

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