

Ensinger Tecapeek® XP-119 Compression Molded PEEK Compound, 10% 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-119-Compression-Molded-PEEK-Compound-10-Carbon-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ASTM D792
Filler Content	10 %	10 %	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	98	98	ASTM D785
Tensile Strength	117 MPa	17000 psi	ASTM D638
Elongation at Break	3.5 %	3.5 %	Flexural Strain; ASTM D790
	4.9 %	4.9 %	ASTM D638
Tensile Modulus	3.45 GPa	500 ksi	ASTM D638
Flexural Strength	195 MPa	28300 psi	ASTM D790
Flexural Modulus	7.58 GPa	1100 ksi	ASTM D790
Compressive Strength	172 MPa	25000 psi	10% Deformation; ASTM D695
Compressive Modulus	3.10 GPa	450 ksi	ASTM D695
Izod Impact, Notched	0.294 J/cm	0.550 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	343 °C	649 °F	DSC

Descriptive Properties	Value	Comments
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Color Descriptive Properties	Black Value	Comments
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