

Ensinger Tecapeek® XP-117 Compression Molded PEEK Compound, 25% PTFE Filled

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , 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-117-Compression-Molded-PEEK-Compound-25-PTFE-Filled.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	ASTM D792
Filler Content	25 %	25 %	
Water Absorption	0.040 % @Time 86400 sec	0.040 % @Time 24.0 hour	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	117	117	ASTM D785
Tensile Strength	62.1 MPa	9000 psi	ASTM D638
Elongation at Break	5.6 %	5.6 %	ASTM D638
	5.7 %	5.7 %	Flexural Strain; ASTM D790
Tensile Modulus	2.28 GPa	330 ksi	ASTM D638
Flexural Strength	105 MPa	15300 psi	ASTM D790
Flexural Modulus	2.96 GPa	430 ksi	ASTM D790
Compressive Strength	110 MPa	16000 psi	ASTM D695
Compressive Modulus	2.34 GPa	340 ksi	ASTM D695
Izod Impact, Notched	0.315 J/cm	0.590 ft-lb/in	ASTM D256

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

Electrical Properties	Metric	English	Comments
Surface Resistance	$\leq 1.00 \times 10^{13}$ ohm	$\leq 1.00 \times 10^{13}$ ohm	ASTM D257

Descriptive Properties	Value	Comments
Color	Tan	

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