

Ensinger Tecapeek® XP-102 Compression Molded PEEK Compound, Filled with 15% Graphite and 10% PTFE

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-102-Compression-Molded-PEEK-Compound-Filled-with-15-Graphite-and-10-PTFE.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ASTM D792
Filler Content	5.0 %	5.0 %	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	102	102	ASTM D785
Hardness, Shore D	87	87	ASTM D2240
Tensile Strength	105 MPa	15300 psi	ASTM D638
Elongation at Break	4.5 %	4.5 %	ASTM D638
	5.0 %	5.0 %	Flexural Strain; ASTM D790
Tensile Modulus	4.41 GPa	640 ksi	ASTM D638
Flexural Strength	168 MPa	24300 psi	ASTM D790
Flexural Modulus	4.83 GPa	700 ksi	ASTM D790
Compressive Strength	<= 133 MPa	<= 19300 psi	ASTM D695
Izod Impact, Notched	0.272 J/cm	0.510 ft-lb/in	ASTM D256
Coefficient of Friction, Dynamic	0.16	0.16	ASTM D3702
Coefficient of Friction, Static	0.17	0.17	ASTM D3702

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	343 °C Metric	649 °F English	DSC Comments
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Descriptive Properties	Value	Comments
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Color	Tan	
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Contact Songhan Plastic Technology Co.,Ltd.

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