

Ensinger Tecapeek® XP-96 Compression Molded PEEK

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Unreinforced

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-96-Compression-Molded-PEEK.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	ASTM D792
Filler Content	0.00 %	0.00 %	
Water Absorption	0.050 % @Time 86400 sec	0.050 % @Time 24.0 hour	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	101	101	ASTM D785
Hardness, Shore D	89	89	ASTM D2240
Tensile Strength	95.1 MPa	13800 psi	ASTM D638
Elongation at Break	4.5 %	4.5 %	ASTM D638
	4.5 %	4.5 %	Flexural Strain; ASTM D790
Tensile Modulus	5.31 GPa	770 ksi	ASTM D638
Flexural Strength	154 MPa	22300 psi	ASTM D790
Flexural Modulus	4.83 GPa	700 ksi	ASTM D790
Compressive Strength	133 MPa	19300 psi	10% Deformation; ASTM D695
Compressive Modulus	2.48 GPa	360 ksi	ASTM D695
Izod Impact, Notched	0.310 J/cm	0.580 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.245 W/m-K	1.70 BTU-in/hr-ft ² -°F	ASTM C177

Thermal Properties	Metric	English	Comments
Melting Point	143 °C	289 °F	DSC
Heat Distortion Temperature	149 °C	300 °F	ASTM D648
Glass Transition Temp, Tg	143 °C	289 °F	DSC

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.90e+16 ohm-cm	4.90e+16 ohm-cm	ASTM D257
Dielectric Strength	19.0 kV/mm	483 kV/in	ASTM D149

Descriptive Properties	Value	Comments
Color	Tan	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China