

Ensinger Tecapeek® XP-98 Medical Compression Molded PEEK Compound, 30% 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-98-Medical-Compression-Molded-PEEK-Compound-30-Carbon-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ASTM D792
Filler Content	30 %	30 %	
Water Absorption	0.050 % @Time 86400 sec	0.050 % @Time 24.0 hour	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	102	102	ASTM D785
Hardness, Shore D	93	93	ASTM D2240
Tensile Strength	126 MPa	18300 psi	ASTM D638
Elongation at Break	1.7 %	1.7 %	Flexural Strain; ASTM D790
	2.2 %	2.2 %	ASTM D638
Tensile Modulus	9.65 GPa	1400 ksi	ASTM D638
Flexural Strength	210 MPa	30500 psi	ASTM D790
Flexural Modulus	11.0 GPa	1600 ksi	ASTM D790
Compressive Strength	<= 179 MPa	<= 26000 psi	ASTM D695
Compressive Modulus	4.14 GPa	600 ksi	ASTM D695
Shear Strength	83.4 MPa	12100 psi	ASTM D732
Izod Impact, Notched	0.550 J/cm	1.03 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	28.4 $\mu\text{m}/\text{m}\cdot\text{°C}$	15.8 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM E831
Melting Point	343 °C	649 °F	DSC
Heat Distortion Temperature	$\geq 237 \text{ °C}$	$\geq 459 \text{ °F}$	ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	$\leq 10000 \text{ ohm}$	$\leq 10000 \text{ ohm}$	ASTM D257

Descriptive Properties	Value	Comments
Color	Black	

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