

Ensinger Tecapeek® XP-98ST Compression Molded PEEK ST, 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-98ST-Compression-Molded-PEEK-ST-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 %	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	125	125	ASTM D785
Tensile Strength	153.8 MPa	22310 psi	ASTM D638
Elongation at Break	1.7 %	1.7 %	ASTM D638
	2.4 %	2.4 %	Flexural Strain; ASTM D790
Tensile Modulus	19.66 GPa	2851 ksi	ASTM D638
Flexural Strength	201 MPa	29100 psi	ASTM D790
Flexural Modulus	14.7 GPa	2130 ksi	ASTM D790
Compressive Strength	196 MPa	28400 psi	ASTM D695
Compressive Modulus	4.317 GPa	626.2 ksi	ASTM D695
Izod Impact, Notched	0.294 J/cm	0.550 ft-lb/in	ASTM D256

Descriptive Properties	Value	Comments
Color	Black	

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