

Ensinger Tecapeek® CF30 Polyetheretherketone, 30% Carbon Reinforced (PEEK)

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

Material Notes:

Tecapeek™, made from Victrex® PEEK polymer, is an excellent material for a wide spectrum of applications where thermal, chemical, and combustion properties are critical to performance. Excellent flexural, impact, and tensile characteristics Very high continuous working temp Very high heat distortion temp Exceptional chemical resistance Superior dielectric at high temperatures and frequencies Good radiation resistance Outstanding wear and abrasion resistance Low smoke and toxic gas emissions Excellent hydrolysis resistance Information provided by Ensinger, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-Tecapeek-CF30-Polyetheretherketone-30-Carbon-Reinforced-PEEK.php

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in ³	ASTM D792
Water Absorption	0.060 %	0.060 %	at 24 hours; ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	107	107	ASTM D785
Tensile Strength, Yield	186 MPa	27000 psi	ASTM D638
Elongation at Break	1.1 %	1.1 %	ASTM D638
Tensile Modulus	12.999 GPa	1885.4 ksi	1 % Sec; ASTM D638
Flexural Strength	318 MPa	46100 psi	ASTM D790
Flexural Modulus	12.755 GPa	1850.0 ksi	Tangent; ASTM D790
Compressive Strength	240 MPa	34800 psi	ASTM D695
Shear Strength	97.2 MPa	14100 psi	Ultimate; ASTM D3846
Izod Impact, Notched	0.481 J/cm	0.900 ft-lb/in	ASTM D256
Coefficient of Friction, Dynamic	0.22	0.22	1200 in/min, 155 lbs Load; ASTM D1894-95
Limiting Pressure Velocity	13.5 MPa-m/sec	385000 psi-ft/min	1200 in/min

Thermal Properties	Metric	English	Comments
CTE, linear	14.4 µm/m-°C @Temperature 20.0 °C	8.00 µin/in-°F @Temperature 68.0 °F	ASTM D696

Thermal Properties	0.918 W/m-K Metric	6.37 BTU-in/hr-ft²-F English	ASTM C177 Comments
Melting Point	334 °C	633 °F	
Maximum Service Temperature, Air	260 °C	500 °F	Continuous
Deflection Temperature at 1.8 MPa (264 psi)	316 °C	600 °F	ASTM D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	140000 ohm-cm	140000 ohm-cm	ASTM D257

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