

## Ensinger Tecapeek® GF30 Polyetheretherketone, 30% Glass 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-GF30-Polyetheretherketone-30-Glass-Reinforced-PEEK.php](http://www.lookpolymers.com/polymer_Ensinger-Tecapeek-GF30-Polyetheretherketone-30-Glass-Reinforced-PEEK.php)

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.11 %	0.11 %	at 24 hours; ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	103	103	ASTM D785
Tensile Strength, Yield	157 MPa	22800 psi	ASTM D638
Elongation at Break	2.2 %	2.2 %	ASTM D638
Tensile Modulus	9.6995 GPa	1406.8 ksi	1 % Sec; ASTM D638
Flexural Strength	233 MPa	33800 psi	ASTM D790
Flexural Modulus	10.309 GPa	1495.2 ksi	Tangent; ASTM D790
Compressive Strength	215 MPa	31200 psi	ASTM D695
Shear Strength	97.2 MPa	14100 psi	Ultimate; ASTM D3846
Izod Impact, Notched	0.961 J/cm	1.80 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	21.6 µm/m-°C	12.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.432 W/m-K	3.00 BTU-in/hr-ft <sup>2</sup> -°F	ASTM C177
Melting Point	334 °C	633 °F	
Maximum Service Temperature, Air	250 °C	482 °F	Continuous

Deflection Temperature at 1.8 MPa (104 psi) Thermal Properties	315 °C Metric	600 °F English	ASTM D249 Comments
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Surface Resistivity per Square	1.00e+16 ohm	1.00e+16 ohm	ASTM D257
Dielectric Strength	6.89 kV/mm	175 kV/in	ASTM D149

## Contact Songhan Plastic Technology Co.,Ltd.

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