

Ensinger TECATRON™ GF 40 Polyphenylene sulfide (PPS)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

TECATRON PPS is a high performance thermoplastic that combines good mechanical properties with excellent thermal and chemical resistance properties. There is no known solvent that dissolves TECATRON PPS at temperatures below 392°F. Its low ionic impurities make it an excellent choice for applications where high purity is a concern. TECATRON GF40 is a glass reinforced material that offers extremely high strength along with excellent chemical resistance properties. TECATRON PVX is a bearing grade PPS that is suitable for high load applications. Information Provided by Ensinger Industries, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-TECATRON-GF-40-Polyphenylene-sulfide-PPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.64 g/cc	1.64 g/cc	ASTM D792
Density	1.64 g/cc	0.0592 lb/in ³	ASTM D792
Water Absorption at Saturation	0.020 %	0.020 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	184 MPa	26700 psi	
Elongation at Break	1.9 %	1.9 %	ASTM D638
Tensile Modulus	14.0 GPa	2030 ksi	ASTM D638
Flexural Modulus	13.0 GPa	1890 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
CTE, linear	18.0 µm/m-°C	10.0 µin/in-°F	ASTM D696
Specific Heat Capacity	1.18 J/g-°C	0.282 BTU/lb-°F	
Thermal Conductivity	0.251 W/m-K	1.74 BTU-in/hr-ft ² -°F	
Melting Point	282 °C	540 °F	ASTM D2133
Maximum Service Temperature, Air	230 °C	446 °F	Long Term
	260 °C	500 °F	Intermittent
Deflection Temperature at 1.8 MPa (264 psi)	260 °C	500 °F	ASTM D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	ASTM D257
Surface Resistivity per Square	1.00e+15 ohm	1.00e+15 ohm	ASTM D257
Dielectric Constant	4.0	4.0	1 Mhz; ASTM D150
Dielectric Strength	20.0 kV/mm	508 kV/in	ASTM D149
Dissipation Factor	0.00010	0.00010	60 Hz; ASTM D150
	@Temperature 22.8 °C	@Temperature 73.0 °F	
	0.0040	0.0040	1 Mhz; ASTM D150

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