

Ensinger TECATRON™ PVX Polyphenylene sulfide (PPS), Bearing Grade

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-PVX-Polyphenylene-sulfide-PPS-Bearing-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.47 g/cc	1.47 g/cc	ASTM D792
Density	1.47 g/cc	0.0531 lb/in ³	ASTM D792
Water Absorption at Saturation	0.020 %	0.020 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	
Elongation at Break	1.5 %	1.5 %	ASTM D638
Tensile Modulus	9.51 GPa	1380 ksi	ASTM D638

Thermal Properties	Metric	English	Comments
CTE, linear	16.9 µm/m-°C	9.40 µin/in-°F	ASTM D696
Melting Point	282 °C	540 °F	ASTM D2133
Maximum Service Temperature, Air	230 °C	446 °F	Long Term
	260 °C	500 °F	Intermittent
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+6 ohm-cm	1.00e+6 ohm-cm	ASTM D257
Surface Resistivity per Square	1.00e+6 ohm	1.00e+6 ohm	ASTM D257
Dielectric Constant	3.0	3.0	60 Hz, 50% RH; ASTM D150
Dissipation Factor	0.00010	0.00010	60 Hz; ASTM D150

Electrical Properties

Metric

English

Comments

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