

Ensinger Tecatron® XP-64 Compression Molded PPS Compound, 40% Fiberglass

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) with 40% Glass Fiber Filler

Material Notes:

Ensinger Special Polymers has over twenty different grades of TECATRON PPS available. Custom formulations can be blended to suit specific applications. Compression molding is amenable to short run production and yields products which are homogenous with low process stress. TECATRON PPS is a highly crystalline high-temperature thermoplastic with an excellent balance of cost, temperature resistance, strength, chemical resistance and flame retardance. TECATRON PPS is often used when long-term high-temperature performance and dimensional stability are a must, even in the presence of aggressive chemicals. Applications: Fuel

Injectors Manifolds Pumps Pistons Gears V-Packing Gaskets Bearings Information provided by Ensinger Special Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-Tecatron-XP-64-Compression-Molded-PPS-Compound-40-Fiberglass.php

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in ³	ASTM D792
Filler Content	40 %	40 %	
Water Absorption	0.063 % @Time 86400 sec	0.063 % @Time 24.0 hour	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	88	88	ASTM D2240
Tensile Strength	42.7 MPa	6200 psi	ASTM D638
Elongation at Break	1.1 %	1.1 %	ASTM D638
	1.4 %	1.4 %	Flexural Strain; ASTM D790
Tensile Modulus	6.21 GPa	900 ksi	ASTM D638
Flexural Strength	75.8 MPa	11000 psi	ASTM D790
Flexural Modulus	8.27 GPa	1200 ksi	ASTM D790
Compressive Strength	172 MPa	25000 psi	ASTM D695
Compressive Modulus	4.00 GPa	580 ksi	ASTM D695
Shear Strength	55.8 MPa	8100 psi	ASTM D732
Izod Impact, Notched	0.374 J/cm	0.700 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric $^{\circ}\text{m}^{-1}\text{C}$	English $^{\circ}\text{in}^{-1}\text{F}$	Comments
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Electrical Properties	Metric	English	Comments
Volume Resistivity	2.90e+15 ohm-cm	2.90e+15 ohm-cm	ASTM D257
Dielectric Constant	4.6	4.6	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	9.17 kV/mm	233 kV/in	ASTM D149

Descriptive Properties	Value	Comments
Color	Dark Brown	

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