

Ensinger Tecatron® XP-81 Compression Molded PPS Compound, Filled with 15% Graphite and 15% Carbon Fiber

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) with 20% Carbon 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-81-Compression-Molded-PPS-Compound-Filled-with-15-Graphite-and-15-Carbon-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.54 g/cc	0.0556 lb/in ³	ASTM D792
Filler Content	30 %	30 %	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	120	120	ASTM D785
Hardness, Shore D	85	85	ASTM D2240
Tensile Strength	27.6 MPa	4000 psi	ASTM D638
Elongation at Break	0.30 %	0.30 %	ASTM D638
	0.40 %	0.40 %	Flexural Strain; ASTM D790
Tensile Modulus	9.65 GPa	1400 ksi	ASTM D638
Flexural Strength	53.1 MPa	7700 psi	ASTM D790
Flexural Modulus	8.96 GPa	1300 ksi	ASTM D790
Compressive Strength	<= 152 MPa	<= 22000 psi	ASTM D695
Shear Strength	40.0 MPa	5800 psi	ASTM D732
Izod Impact, Notched	0.347 J/cm	0.650 ft-lb/in	ASTM D256
Coefficient of Friction, Dynamic	0.11	0.11	ASTM D1894
Coefficient of Friction, Static	0.14	0.14	ASTM D1894

Thermal Properties	Metric	English	Comments
CTE, linear	19.3 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	10.7 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM E831
Maximum Service Temperature, Air	232 $^{\circ}\text{C}$	450 $^{\circ}\text{F}$	UL746B

Electrical Properties	Metric	English	Comments
Surface Resistance	≤ 10000 ohm	≤ 10000 ohm	ASTM D257

Descriptive Properties	Value	Comments
Color	Black	

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