

## Ensinger Tecatron® XP-85 Compression Molded PPS Compound, with 30% Carbon Fiber

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) with 30% 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-85-Compression-Molded-PPS-Compound-with-30-Carbon-Fiber.php](http://www.lookpolymers.com/polymer_Ensinger-Tecatron-XP-85-Compression-Molded-PPS-Compound-with-30-Carbon-Fiber.php)

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in <sup>3</sup>	ASTM D792
Filler Content	30 %	30 %	
Water Absorption	0.050 %	0.050 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	98	98	ASTM D785
Hardness, Shore D	87	87	ASTM D2240
Tensile Strength	53.8 MPa	7800 psi	ASTM D638
Elongation at Break	1.1 %	1.1 %	Flexural Strain; ASTM D790
	1.3 %	1.3 %	
Tensile Modulus	4.83 GPa	700 ksi	ASTM D638
Flexural Strength	107 MPa	15500 psi	ASTM D790
Flexural Modulus	10.3 GPa	1500 ksi	ASTM D790
Compressive Strength	165 MPa	24000 psi	10% Deformation; ASTM D695
Compressive Modulus	5.24 GPa	760 ksi	ASTM D695
Izod Impact, Notched	0.310 J/cm	0.580 ft-lb/in	ASTM D256
Coefficient of Friction, Dynamic	0.11	0.11	ASTM D1894

Coefficient of Friction, Static Mechanical Properties	0.13 Metric	0.13 English	ASTM D1894 Comments
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Thermal Properties	Metric	English	Comments
Heat Distortion Temperature	254 °C	490 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	839 ohm-cm	839 ohm-cm	ASTM D257
Surface Resistance	<= 842 ohm	<= 842 ohm	ASTM D257

Descriptive Properties	Value	Comments
Color	Black	

## Contact Songhan Plastic Technology Co.,Ltd.

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