

## Ensinger Tecatron® XP-82 Compression Molded PPS Compound, Filled with 15% PTFE and 30% Carbon Fiber

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) with 30% Carbon Fiber Filler , Polyphenylene Sulfide (PPS) with PTFE 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-82-Compression-Molded-PPS-Compound-Filled-with-15-PTFE-and-30-Carbon-Fiber.php](http://www.lookpolymers.com/polymer_Ensinger-Tecatron-XP-82-Compression-Molded-PPS-Compound-Filled-with-15-PTFE-and-30-Carbon-Fiber.php)

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in <sup>3</sup>	ASTM D792
Filler Content	45 %	45 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength	40.0 MPa	5800 psi	ASTM D638
Elongation at Break	1.1 %	1.1 %	ASTM D638
	1.1 %	1.1 %	Flexural Strain; ASTM D790
Tensile Modulus	8.27 GPa	1200 ksi	ASTM D638
Flexural Strength	66.2 MPa	9600 psi	ASTM D790
Flexural Modulus	8.27 GPa	1200 ksi	ASTM D790
Compressive Strength	<= 100 MPa	<= 14500 psi	ASTM D695
Compressive Modulus	1.59 GPa	230 ksi	ASTM D695
Shear Strength	43.4 MPa	6300 psi	ASTM D732
Izod Impact, Notched	0.315 J/cm	0.590 ft-lb/in	ASTM D256

Descriptive Properties	Value	Comments
Color	Black	

## **Contact Songhan Plastic Technology Co.,Ltd.**

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