

## Ensinger ENSIFIDE® PPS (Polyphenylene Sulfide) - Extruded Products (discontinued \*\*)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

### Material Notes:

ENSIFIDE is a high performance thermoplastic that combines good mechanical properties with excellent thermal and chemical resistance properties. There is no known solvent that dissolves ENSIFIDE at temperatures below 392°F. Its low ionic impurities make it an excellent choice for applications where low outgassing and high purity are a concern. Uses: ENSIFIDE's excellent thermal and chemical resistance along with its low ionic impurities make it an excellent choice for applications requiring low outgassing and high purity. ENSIFIDE is typically used in the automotive, electrical/electronic, industrial, mechanical, appliance and semiconductor industries. Information supplied by Ensinger, Inc. Ensifide grades have been replaced by Tecatron

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ensinger-ENSIFIDE-PPS-Polyphenylene-Sulfide-Extruded-Products-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Ensinger-ENSIFIDE-PPS-Polyphenylene-Sulfide-Extruded-Products-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.020 %	0.020 %	at 24 hours; ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	104	104	ASTM D785
Tensile Strength, Yield	60.0 MPa	8700 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Tensile Modulus	3.31 GPa	480 ksi	ASTM D638
Flexural Strength	120 MPa	17400 psi	ASTM D790
Flexural Modulus	3.00 GPa	435 ksi	ASTM D790
Izod Impact, Notched	0.267 J/cm	0.500 ft-lb/in	ASTM D256
Coefficient of Friction, Dynamic	0.24	0.24	40 psi, 50 fpm; ASTM D3702
K (wear) Factor	1090 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	540 x 10 <sup>-10</sup> in <sup>3</sup> -min/ft-lb-hr	40 psi, 50 fpm; ASTM D3702

Thermal Properties	Metric	English	Comments
CTE, linear	72.0 µm/m-°C	40.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft <sup>2</sup> -°F	ASTM C177

Melting Point Thermal Properties	282 °C Metric	540 °F English	ASTM D2133 Comments
Maximum Service Temperature, Air	170 °C	338 °F	Long Term
Deflection Temperature at 0.46 MPa (66 psi)	204 °C	400 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	104 °C	220 °F	ASTM D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Constant	3.0 @Frequency 60 Hz	3.0 @Frequency 60 Hz	ASTM D150
Dissipation Factor	0.00010 @Frequency 60 Hz	0.00010 @Frequency 60 Hz	ASTM D150

## Contact Songhan Plastic Technology Co.,Ltd.

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