

Owens Corning Glass Fiber Reinforced Polyphenylene Sulfide, 40 wt.% glass

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

Material Notes:

Polyphenylene Sulfide provides excellent resistance to organic solvents (below 375°F). It is unaffected by strong alkalis or aqueous organic salt solutions. Data provided by the manufacturer, Owens Corning.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Owens-Corning-Glass-Fiber-Reinforced-Polyphenylene-Sulfide-40-wt-glass.php

Physical Properties	Metric	English	Comments
Density	1.64 g/cc	0.0592 lb/in ³	ASTM D792
Water Absorption	0.010 %	0.010 %	24 hrs.; ASTM D570
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	123	123	ASTM D785
Tensile Strength, Ultimate	150 MPa	21800 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Modulus of Elasticity	14.1 GPa	2050 ksi	ASTM D638
Flexural Strength	260 MPa	37700 psi	ASTM D790
Flexural Modulus	13.0 GPa	1890 ksi	ASTM D790
Compressive Strength	140 MPa	20300 psi	ASTM D695
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	

Thermal Properties	Metric	English	Comments
Flammability, UL94	V-0	V-0	V-0/5V

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.00e+15 ohm-cm	4.00e+15 ohm-cm	ASTM D257
Dielectric Constant	3.0 @Frequency 60 Hz	3.0 @Frequency 60 Hz	ASTM D150
Dielectric Strength	15.0 kV/mm	380 kV/in	ASTM D149
Arc Resistance	125 sec	125 sec	ASTM D495

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