

Owens Corning Glass Fiber Reinforced Polyphenylene Oxide (PPO), 20 wt.% glass

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Ether, 20% Glass Filled

Material Notes:

Polyphenylene Oxide provides excellent resistance to aqueous media. It is softened by aromatic hydrocarbons. 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-Oxide-PPO-20-wt-glass.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	ASTM D792
Water Absorption	0.24 %	0.24 %	24 hrs.; ASTM D570
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	107	107	ASTM D785
Tensile Strength, Ultimate	100 MPa	14500 psi	ASTM D638
Elongation at Break	5.0 %	5.0 %	ASTM D638
Modulus of Elasticity	6.30 GPa	914 ksi	ASTM D638
Flexural Strength	128 MPa	18600 psi	ASTM D790
Flexural Modulus	5.20 GPa	754 ksi	ASTM D790
Compressive Strength	121 MPa	17500 psi	ASTM D695
Izod Impact, Notched	0.960 J/cm	1.80 ft-lb/in	

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Constant	3.2 @Frequency 60 Hz	3.2 @Frequency 60 Hz	ASTM D150
Dielectric Strength	19.7 kV/mm	500 kV/in	ASTM D149

Arc Resistance Electrical Properties	70 sec Metric	70 sec English	ASTM D495 Comments
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