

Owens Corning Glass Fiber Reinforced Polyester (PBT), 30 wt.% glass

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 30% Glass Fiber Filled

Material Notes:

Thermoplastic Polyesters are resistant to most organic solvents, weak acids and alkalis. They are not recommended with strong acids and alkalis or for prolonged use in hot water. Data provided by the manufacturer, Owens Corning.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Owens-Corning-Glass-Fiber-Reinforced-Polyester-PBT-30-wt-glass.php

Physical Properties	Metric	English	Comments
Density	1.52 g/cc	0.0549 lb/in ³	ASTM D792
Water Absorption	0.060 %	0.060 %	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	118	118	ASTM D785
Tensile Strength, Ultimate	130 MPa	18900 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Modulus of Elasticity	8.30 GPa	1200 ksi	ASTM D638
Flexural Strength	190 MPa	27600 psi	ASTM D790
Flexural Modulus	8.07 GPa	1170 ksi	ASTM D790
Compressive Strength	120 MPa	17400 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	3.20e+16 ohm-cm	3.20e+16 ohm-cm	ASTM D257
Dielectric Constant	3.8	3.8	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	14.8 kV/mm	375 kV/in	ASTM D149
Arc Resistance	135 sec	135 sec	ASTM D495

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