

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

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), 30% Glass Reinforced

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-PET-30-wt-glass.php

Physical Properties	Metric	English	Comments
Density	1.56 g/cc	0.0564 lb/in ³	ASTM D792
Water Absorption	0.050 %	0.050 %	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	120	120	ASTM D785
Tensile Strength, Ultimate	140 MPa	20300 psi	ASTM D638
Elongation at Break	6.6 %	6.6 %	ASTM D638
Modulus of Elasticity	9.00 GPa	1310 ksi	ASTM D638
Flexural Strength	220 MPa	31900 psi	ASTM D790
Flexural Modulus	8.62 GPa	1250 ksi	ASTM D790
Compressive Strength	170 MPa	24700 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	3.6 @Frequency 60 Hz	3.6 @Frequency 60 Hz	ASTM D150
Dielectric Strength	20.5 kV/mm	520 kV/in	ASTM D149
Arc Resistance	90 sec	90 sec	ASTM D495

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