

Owens Corning Glass Fiber Reinforced Polypropylene, 20 wt.% glass

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 20% Glass Fiber Filler

Material Notes:

Polypropylene provides good resistance to acids, alkalis and organic solvents even at higher temperatures. It is, however, soluble in chlorinated 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-Polypropylene-20-wt-glass.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 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	103	103	ASTM D785
Tensile Strength, Ultimate	45.0 MPa	6530 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Modulus of Elasticity	3.70 GPa	537 ksi	ASTM D638
Flexural Strength	57.0 MPa	8270 psi	ASTM D790
Flexural Modulus	3.60 GPa	522 ksi	ASTM D790
Compressive Strength	170 MPa	24700 psi	ASTM D695
Izod Impact, Notched	0.590 J/cm	1.11 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	4.32 $\mu\text{m/m-}^{\circ}\text{C}$	2.40 $\mu\text{in/in-}^{\circ}\text{F}$	ASTM D696
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Thermal Conductivity	1.21 W/m-K	8.40 BTU-in/hr-ft ² - $^{\circ}\text{F}$	ASTM C177
Deflection Temperature at 1.8 MPa (264 psi)	132 $^{\circ}\text{C}$	270 $^{\circ}\text{F}$	ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 60 Hz	@Frequency 60 Hz	ASTM D150
Dielectric Strength	17.3 kV/mm	440 kV/in	ASTM D149
Arc Resistance	120 sec	120 sec	ASTM D495

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