

Owens Corning Glass Fiber Reinforced Polycarbonate, 10 wt.% glass

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 10% Glass Filled

Material Notes:

Data provided by the manufacturer, Owens Corning.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Owens-Corning-Glass-Fiber-Reinforced-Polycarbonate-10-wt-glass.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in ³	ASTM D792
Water Absorption	0.14 %	0.14 %	24 hrs.; ASTM D570
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	80	80	ASTM D785
Tensile Strength, Ultimate	83.0 MPa	12000 psi	ASTM D638
Elongation at Break	9.0 %	9.0 %	ASTM D638
Modulus of Elasticity	5.20 GPa	754 ksi	ASTM D638
Flexural Strength	110 MPa	16000 psi	ASTM D790
Flexural Modulus	4.00 GPa	580 ksi	ASTM D790
Compressive Strength	97.0 MPa	14100 psi	ASTM D695
Izod Impact, Notched	1.00 J/cm	1.87 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	3.24 $\mu\text{m/m-}^{\circ}\text{C}$	1.80 $\mu\text{in/in-}^{\circ}\text{F}$	ASTM D696
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Specific Heat Capacity	1.21 J/g- $^{\circ}\text{C}$	0.290 BTU/lb- $^{\circ}\text{F}$	
Thermal Conductivity	0.663 W/m-K	4.60 BTU-in/hr-ft ² - $^{\circ}\text{F}$	ASTM C177
Deflection Temperature at 1.8 MPa (264 psi)	141 $^{\circ}\text{C}$	285 $^{\circ}\text{F}$	ASTM D648
Flammability, UL94	V-1	V-1	

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	1.00e+16 ohm-cm Metric	1.00e+16 ohm-cm English	ASTM D257 Comments
Dielectric Constant	3.1	3.1	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	19.7 kV/mm	500 kV/in	ASTM D149
Arc Resistance	125 sec	125 sec	ASTM D495

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