

Owens Corning Glass Fiber Reinforced Epoxy (Filament Wound), 80 wt.% glass

Category : Polymer , Thermoset , Epoxy , Epoxy, Molded, Glass Fiber Filler , Filled/Reinforced Thermoset

Material Notes:

Epoxyes are highly resistant to water, alkalis and organic solvents. Although standard epoxyes have only a fair resistance to acids and oxidizing agents, they can be formulated for better resistance to these agents. They should be tested before use. Data provided by the manufacturer, Owens Corning.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Owens-Corning-Glass-Fiber-Reinforced-Epoxy-Filament-Wound-80-wt-glass.php

Physical Properties	Metric	English	Comments
Density	2.08 g/cc	0.0751 lb/in ³	ASTM D792
Water Absorption	0.50 %	0.50 %	24 hrs.; ASTM D570
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	98	98	ASTM D785
Tensile Strength, Ultimate	550 MPa	79800 psi	ASTM D638
Elongation at Break	1.6 %	1.6 %	ASTM D638
Modulus of Elasticity	30.0 GPa	4350 ksi	ASTM D638
Flexural Strength	700 MPa	102000 psi	ASTM D790
Flexural Modulus	30.0 GPa	4350 ksi	ASTM D790
Compressive Strength	310 MPa	45000 psi	ASTM D695
Izod Impact, Notched	24.0 J/cm	45.0 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	3.60 $\mu\text{m}/\text{m}\cdot\text{°C}$	2.00 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	0.962 J/g·°C	0.230 BTU/lb·°F	
Thermal Conductivity	0.277 W/m-K	1.92 BTU-in/hr-ft ² -°F	ASTM C177
Deflection Temperature at 1.8 MPa (264 psi)	>= 204 °C	>= 400 °F	ASTM D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	ASTM D257
Dielectric Strength	11.8 kV/mm	300 kV/in	ASTM D149

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