

Owens Corning Glass Fiber Reinforced Polyester (Spray-up/Lay-up), 30 wt.% glass

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Polyester, TS

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-Polyester-Spray-upLay-up-30-wt-glass.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ASTM D792
Water Absorption	1.3 %	1.3 %	24 hrs.; ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	50	50	
Tensile Strength, Ultimate	86.2 MPa	12500 psi	ASTM D638
Elongation at Break	1.3 %	1.3 %	ASTM D638
Modulus of Elasticity	7.00 GPa	1020 ksi	ASTM D638
Flexural Strength	190 MPa	27600 psi	ASTM D790
Flexural Modulus	5.20 GPa	754 ksi	ASTM D790
Compressive Strength	150 MPa	21800 psi	ASTM D695
Izod Impact, Notched	7.50 J/cm	14.1 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	21.6 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	12.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM D696
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Specific Heat Capacity	1.30 J/g $\cdot^{\circ}\text{C}$	0.310 BTU/lb $\cdot^{\circ}\text{F}$	
Thermal Conductivity	0.216 W/m-K	1.50 BTU-in/hr-ft ² - $^{\circ}\text{F}$	ASTM C177
Deflection Temperature at 1.8 MPa (264 psi)	≥ 204 $^{\circ}\text{C}$	≥ 400 $^{\circ}\text{F}$	ASTM D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Dielectric Strength	9.84 kV/mm	250 kV/in	ASTM D149

Electrical Properties

Metric

English

Comments

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