

Owens Corning Glass Fiber Reinforced Polyester SMC (Compression), 50 wt.% glass

Category : Polymer , Thermoset , Composite SMC , Filled/Reinforced Thermoset , Polyester, TS , Thermoset Polyester Glass SMC

Material Notes:

Polyester thermosets are available in many formulations. They can be formulated for good to excellent resistance to acids, weak alkalis, and organic solvents. However, they are not recommended for use with strong alkalis. 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-SMC-Compression-50-wt-glass.php

Physical Properties	Metric	English	Comments
Density	2.00 g/cc	0.0723 lb/in ³	ASTM D792
Water Absorption	0.50 %	0.50 %	24 hrs.; ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	68	68	
Tensile Strength, Ultimate	160 MPa	23200 psi	ASTM D638
Elongation at Break	1.7 %	1.7 %	ASTM D638
Modulus of Elasticity	15.7 GPa	2280 ksi	ASTM D638
Flexural Strength	310 MPa	45000 psi	ASTM D790
Flexural Modulus	10.0 GPa	1450 ksi	ASTM D790
Compressive Strength	220 MPa	31900 psi	ASTM D695
Izod Impact, Notched	10.4 J/cm	19.5 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	16.9 µm/m-°C	9.40 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	1.26 J/g-°C	0.300 BTU/lb-°F	
Deflection Temperature at 1.8 MPa (264 psi)	>= 204 °C	>= 400 °F	ASTM D648
Flammability, UL94	V-0	V-0	5V

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.4	4.4	ASTM D150

Electrical Properties	@Frequency 60 Hz Metric	@Frequency 60 Hz English	Comments
Arc Resistance	188 sec	188 sec	ASTM D495

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