

Owens Corning Glass Fiber Reinforced Polyester SMC (Compression), 22 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-22-wt-glass.php

Physical Properties	Metric	English	Comments
Density	1.82 g/cc	0.0658 lb/in ³	ASTM D792
Water Absorption	0.20 %	0.20 %	24 hrs.; ASTM D570
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	68	68	
Tensile Strength, Ultimate	40.0 MPa	5800 psi	ASTM D638
Elongation at Break	0.50 %	0.50 %	ASTM D638
Modulus of Elasticity	12.1 GPa	1750 ksi	ASTM D638
Flexural Strength	88.3 MPa	12800 psi	ASTM D790
Flexural Modulus	10.9 GPa	1580 ksi	ASTM D790
Compressive Strength	140 MPa	20300 psi	ASTM D695
Izod Impact, Notched	2.27 J/cm	4.25 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	11.9 $\mu\text{m/m-}^{\circ}\text{C}$	6.60 $\mu\text{in/in-}^{\circ}\text{F}$	ASTM D696
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Specific Heat Capacity	1.26 J/g- $^{\circ}\text{C}$	0.300 BTU/lb- $^{\circ}\text{F}$	
Thermal Conductivity	0.697 W/m-K	4.84 BTU-in/hr-ft ² - $^{\circ}\text{F}$	ASTM C177
Deflection Temperature at 1.8 MPa (264 psi)	260 $^{\circ}\text{C}$	500 $^{\circ}\text{F}$	ASTM D648
Flammability, UL94	V-0	V-0	5V

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.70e+15 ohm-cm	2.70e+15 ohm-cm	ASTM D257
Dielectric Constant	4.2	4.2	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	14.8 kV/mm	375 kV/in	ASTM D149
Arc Resistance	190 sec	190 sec	ASTM D495

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