

## Owens Corning Glass Fiber Reinforced Polyester SMC (Compression), 20 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-20-wt-glass.php](http://www.lookpolymers.com/polymer_Owens-Corning-Glass-Fiber-Reinforced-Polyester-SMC-Compression-20-wt-glass.php)

Physical Properties	Metric	English	Comments
Density	1.78 g/cc	0.0643 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.10 %	0.10 %	24 hrs.; ASTM D570
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	68	68	
Tensile Strength, Ultimate	37.0 MPa	5370 psi	ASTM D638
Elongation at Break	0.40 %	0.40 %	ASTM D638
Modulus of Elasticity	12.0 GPa	1740 ksi	ASTM D638
Flexural Strength	110 MPa	16000 psi	ASTM D790
Flexural Modulus	9.70 GPa	1410 ksi	ASTM D790
Compressive Strength	160 MPa	23200 psi	ASTM D695
Izod Impact, Notched	4.40 J/cm	8.24 ft-lb/in	

Thermal Properties	Metric	English	Comments
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
	@Frequency 60 Hz	@Frequency 60 Hz	

Electrical Properties

Metric

English

Comments

## Contact Songhan Plastic Technology Co.,Ltd.

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