

## Owens Corning Glass Fiber Reinforced Polyester SMC (Compression), 30 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-30-wt-glass.php](http://www.lookpolymers.com/polymer_Owens-Corning-Glass-Fiber-Reinforced-Polyester-SMC-Compression-30-wt-glass.php)

Physical Properties	Metric	English	Comments
Density	1.85 g/cc	0.0668 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.25 %	0.25 %	24 hrs.; ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	68	68	
Tensile Strength, Ultimate	83.0 MPa	12000 psi	ASTM D638
Elongation at Break	1.0 %	1.0 %	ASTM D638
Modulus of Elasticity	12.0 GPa	1740 ksi	ASTM D638
Flexural Strength	180 MPa	26100 psi	ASTM D790
Flexural Modulus	11.0 GPa	1600 ksi	ASTM D790
Compressive Strength	170 MPa	24700 psi	ASTM D695
Izod Impact, Notched	8.50 J/cm	15.9 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
Volume Resistivity	5.70e+14 ohm-cm	5.70e+14 ohm-cm	ASTM D257
Dielectric Constant	4.4 @Frequency 60 Hz	4.4 @Frequency 60 Hz	ASTM D150

Electrical Properties	Metric	English	Comments
Arc Resistance	188 sec	188 sec	ASTM D495

## Contact Songhan Plastic Technology Co.,Ltd.

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