

## Owens Corning Glass Fiber Reinforced Polyester (Pultruded), 55 wt.% glass

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

### 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-Pultruded-55-wt-glass.php](http://www.lookpolymers.com/polymer_Owens-Corning-Glass-Fiber-Reinforced-Polyester-Pultruded-55-wt-glass.php)

Physical Properties	Metric	English	Comments
Density	1.69 g/cc	0.0611 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.75 %	0.75 %	24 hrs.; ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	50	50	
Tensile Strength, Ultimate	200 MPa	29000 psi	ASTM D638
Modulus of Elasticity	17.0 GPa	2470 ksi	ASTM D638
Flexural Strength	210 MPa	30500 psi	ASTM D790
Flexural Modulus	11.0 GPa	1600 ksi	ASTM D790
Compressive Strength	200 MPa	29000 psi	ASTM D695
Izod Impact, Notched	13.0 J/cm	24.4 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	9.00 $\mu\text{m}/\text{m}\cdot\text{°C}$	5.00 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM D696
	@Temperature 20.0 $\text{°C}$	@Temperature 68.0 $\text{°F}$	
Specific Heat Capacity	1.17 J/g- $\text{°C}$	0.280 BTU/lb- $\text{°F}$	
Thermal Conductivity	0.576 W/m-K	4.00 BTU-in/hr-ft <sup>2</sup> - $\text{°F}$	ASTM C177
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	ASTM D257
Dielectric Constant	4.4	4.4	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	

Dielectric Strength Electrical Properties	7.87 kV/mm Metric	200 kV/in English	ASTM D149 Comments
Arc Resistance	80 sec	80 sec	ASTM D495

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China