

Owens Corning Glass Fiber Reinforced Acetal, 25 wt.% glass

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

Data provided by the manufacturer, Owens Corning.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Owens-Corning-Glass-Fiber-Reinforced-Acetal-25-wt-glass.php

Physical Properties	Metric	English	Comments
Density	1.61 g/cc	0.0582 lb/in ³	ASTM D792
Water Absorption	0.29 %	0.29 %	24 hrs.; ASTM D570
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	79	79	ASTM D785
Tensile Strength, Ultimate	128 MPa	18600 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Modulus of Elasticity	8.62 GPa	1250 ksi	ASTM D638
Flexural Strength	190 MPa	27600 psi	ASTM D790
Flexural Modulus	7.60 GPa	1100 ksi	ASTM D790
Compressive Strength	120 MPa	17400 psi	ASTM D695
Izod Impact, Notched	0.960 J/cm	1.80 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	8.46 µm/m-°C	4.70 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	161 °C	322 °F	ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Dielectric Constant	4.12	4.12	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	

Electrical Properties	Metric	English	Comments
Dielectric Strength	22.8 kV/mm	588 kV/in	ASTM D149
Arc Resistance	142 sec	142 sec	ASTM D495

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