

Sumitomo Bakelite North America Epiall® 1908M-1 Short Glass Fiber Reinforced Epoxy

Category : Polymer , Thermoset , Epoxy , Epoxy, Molded, Glass Fiber Filler , Filled/Reinforced Thermoset

Material Notes:

Epiall 1908M-1 is a short glass fiber reinforced epoxy molding compound with excellent dimensional stability, good strength properties, and good electrical insulation properties. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-Epiall-1908M-1-Short-Glass-Fiber-Reinforced-Epoxy.php

Physical Properties	Metric	English	Comments
Bulk Density	0.900 g/cc	0.0325 lb/in³	ASTM D1895
Density	1.98 g/cc	0.0715 lb/in³	ASTM D792
Water Absorption	0.15 % @Temperature 50.0 °C, Time 173000 sec	0.15 % @Temperature 122 °F, Time 48.0 hour	ASTM D570
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	72	72	ASTM D2583
Tensile Strength at Break	62.0 MPa	8990 psi	ASTM D638
Flexural Strength	130 MPa	18900 psi	at rupture; ASTM D790
Flexural Modulus	15.0 GPa	2180 ksi	ASTM D790
Compressive Strength	190 MPa	27600 psi	ASTM D695
Izod Impact, Notched	0.260 J/cm	0.487 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	27.0 µm/m-°C	15.0 µin/in-°F	ASTM E831
Deflection Temperature at 1.8 MPa (264 psi)	>= 282 °C	>= 540 °F	Post Baked; ASTM D648A

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.5 @Frequency 1.00e+6 Hz	4.5 @Frequency 1.00e+6 Hz	wet; ASTM D150

Electrical Properties	12.8 kV/mm Metric	325 kV/in English	Comments
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
Dissipation Factor	0.020	0.020	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	wet; ASTM D150
Arc Resistance	185 sec	185 sec	ASTM D495

Descriptive Properties	Value	Comments
Color	Black	
Form	Granular	
Molding Method	Compression	
	Injection	
	Transfer	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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