

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

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

Material Notes:

Epiall 1908-1 is a short fiberglass reinforced epoxy molding compound, with excellent dimensional stability, good strength properties and good electrical insulation proper-ties that meets the requirements of ASTM D5948 Type GEI-5 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-1908-1-Short-Glass-Fiber-Reinforced-Epoxy.php

Physical Properties	Metric	English	Comments
Bulk Density	0.900 g/cc	0.0325 lb/in ³	ASTM D1895
Density	1.92 g/cc	0.0694 lb/in ³	ASTM D792
Water Absorption	0.20 % @Temperature 50.0 Â°C, Time 173000 sec	0.20 % @Temperature 122 Â°F, Time 48.0 hour	ASTM D570
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	ASTM D638
Flexural Strength	130 MPa	18900 psi	at rupture; ASTM D790
Flexural Modulus	15.1 GPa	2190 ksi	ASTM D790
Compressive Strength	240 MPa	34800 psi	ASTM D695
Izod Impact, Notched	0.370 J/cm	0.693 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	37.0 Âµm/m-Â°C	20.6 Âµin/in-Â°F	ASTM E831
Maximum Service Temperature, Air	130 Â°C	266 Â°F	UL Temperature Index; UL 746B
Deflection Temperature at 1.8 MPa (264 psi)	>= 282 Â°C	>= 540 Â°F	Post Baked; ASTM D648A
Flammability, UL94	V-0 @Thickness 6.40 mm	V-0 @Thickness 0.252 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.1	4.1	wet; ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	12.9 kV/mm	328 kV/in	step-by-step, wet; ASTM D149
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
	14.3 kV/mm	363 kV/in	short time, wet; ASTM D149
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
Dissipation Factor	0.020	0.020	wet; ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Arc Resistance	180 sec	180 sec	ASTM D495

Descriptive Properties	Value	Comments
Colors	Black, Blue, Green, Gray	
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