

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

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

Material Notes:

Epiall 1908B-1 is a short fiberglass 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-1908B-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	1.98 g/cc	0.0715 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
Hardness, Barcol	70	70	ASTM D2583
Tensile Strength at Break	76.0 MPa	11000 psi	ASTM D638
Flexural Strength	145 MPa	21000 psi	at rupture; ASTM D790
Flexural Modulus	15.9 GPa	2310 ksi	ASTM D790
Compressive Strength	180 MPa	26100 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	4.5 @Frequency 1.00e+6 Hz	4.5 @Frequency 1.00e+6 Hz	wet; ASTM D150
Dielectric Strength	12.2 kV/mm @Frequency 60.0 Hz	310 kV/in @Frequency 60.0 Hz	step-by-step, wet; ASTM D149
Dissipation Factor	0.020 @Frequency 1.00e+6 Hz	0.020 @Frequency 1.00e+6 Hz	wet; ASTM D150
Arc Resistance	180 sec	180 sec	ASTM D495

Descriptive Properties	Value	Comments
Colors	Black, Blue, Green	
Form	Granular	
Molding Method	Compression	
	Injection	
	Transfer	

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