

## Sumitomo Bakelite North America Epiall® 1904B-1 Short Glass Fiber Reinforced Epoxy

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

### Material Notes:

Epiall 1904B-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-1904B-1-Short-Glass-Fiber-Reinforced-Epoxy.php](http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-Epiall-1904B-1-Short-Glass-Fiber-Reinforced-Epoxy.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.900 g/cc	0.0325 lb/in <sup>3</sup>	ASTM D1895
Density	2.09 g/cc	0.0755 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.20 % @Temperature 50.0 °C, Time 173000 sec	0.20 % @Temperature 122 °F, Time 48.0 hour	ASTM D570
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	ASTM D638
Flexural Strength	140 MPa	20300 psi	at rupture; ASTM D790
Flexural Modulus	23.0 GPa	3340 ksi	ASTM D790
Compressive Strength	210 MPa	30500 psi	ASTM D695
Izod Impact, Notched	0.330 J/cm	0.618 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	280 °C	536 °F	As Molded; ASTM D648A
	>= 282 °C	>= 540 °F	Post Baked; ASTM D648A

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.6 @Frequency 1.00e+6 Hz	4.6 @Frequency 1.00e+6 Hz	wet; ASTM D150
Dielectric Strength	13.8 kV/mm	351 kV/in	step-by-step, wet; ASTM D149

Electrical Properties	@Frequency 60.0 Hz Metric	@Frequency 60.0 Hz English	Comments
	14.5 kV/mm	368 kV/in	short time, wet; ASTM D149
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
Dissipation Factor	0.035	0.035	wet; ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Arc Resistance	189 sec	189 sec	ASTM D495

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

## Contact Songhan Plastic Technology Co.,Ltd.

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