

## Sumitomo Bakelite North America Epiall® 1961B-1 Mineral and Glass Filled Electrical Encapsulation Grade Epoxy

Category : Polymer , Thermoset , Epoxy , Epoxy, Encapsulating, Glass or Mineral Filled , Filled/Reinforced Thermoset

### Material Notes:

Epiall 1961B-1 is a short glass fiber and mineral filled 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-1961B-1-Mineral-and-Glass-Filled-Electrical-Encapsulation-Grade-Epoxy.php](http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-Epiall-1961B-1-Mineral-and-Glass-Filled-Electrical-Encapsulation-Grade-Epoxy.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.900 g/cc	0.0325 lb/in <sup>3</sup>	ASTM D1895
Density	1.90 g/cc	0.0686 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	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	66	66	ASTM D2583
Tensile Strength at Break	90.0 MPa	13100 psi	ASTM D638
Flexural Strength	150 MPa	21800 psi	at rupture; ASTM D790
Flexural Modulus	16.0 GPa	2320 ksi	ASTM D790
Compressive Strength	240 MPa	34800 psi	ASTM D695
Izod Impact, Notched	0.350 J/cm	0.656 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	16.0 µm/m-°C	8.89 µin/in-°F	ASTM E831
CTE, linear, Transverse to Flow	32.0 µm/m-°C	17.8 µin/in-°F	ASTM E831
Deflection Temperature at 1.8 MPa (264 psi)	260 °C	500 °F	Post Baked; ASTM D648A

Electrical Properties	Metric	English	Comments
	3.8	3.8	

Dielectric Constant Electrical Properties	@Frequency 1.00e+6 Metric Hz	@Frequency 1.00e+6 English Hz	wet; ASTM D150 Comments
Dielectric Strength	12.9 kV/mm	328 kV/in	step-by-step, wet; ASTM D149
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
	13.7 kV/mm	348 kV/in	short time, wet; ASTM D149
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
Dissipation Factor	0.014	0.014	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, Red, Blue	
Form	Granular	
Molding Method	Injection	
	Transfer	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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