

Sumitomo Bakelite North America Epiall® 1960B-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 1960B-1 is a mineral and short fiberglass filled epoxy compound, formulated for the encapsulation of passive electronic devices. 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-1960B-1-Mineral-and-Glass-Filled-Electrical-Encapsulation-Grade-Epoxy.php

Physical Properties	Metric	English	Comments
Density	1.76 g/cc	0.0636 lb/in ³	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	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	ASTM D638
Flexural Strength	115 MPa	16700 psi	at rupture; ASTM D790
Flexural Modulus	12.4 GPa	1800 ksi	ASTM D790
Compressive Strength	242 MPa	35100 psi	ASTM D695
Izod Impact, Notched	0.370 J/cm	0.693 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	275 °C	527 °F	Post Baked; ASTM D648A

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.0 @Frequency 1.00e+6 Hz	4.0 @Frequency 1.00e+6 Hz	wet; ASTM D150
Dielectric Strength	12.9 kV/mm @Frequency 60.0 Hz	328 kV/in @Frequency 60.0 Hz	step-by-step, wet; ASTM D149
	14.9 kV/mm	378 kV/in	short time, wet; ASTM D149

Electrical Properties	@Frequency 60.0 Hz Metric	@Frequency 60.0 Hz English	Comments
Dissipation Factor	0.019	0.019	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
Color	Black	
Form	Granular	
Molding Method	Compression	
	Transfer	

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