

Sumitomo Bakelite North America Epiall® 2061B-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 2061B-1 is a fiberglass and mineral reinforced epoxy molding compound, with excellent dimensional stability, good electrical insulation properties, and good strength. 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-2061B-1-Mineral-and-Glass-Filled-Electrical-Encapsulation-Grade-Epoxy.php

Physical Properties	Metric	English	Comments
Bulk Density	0.800 g/cc	0.0289 lb/in ³	ASTM D1895
Density	1.90 g/cc	0.0686 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	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	70	70	ASTM D2583
Tensile Strength at Break	90.0 MPa	13100 psi	ASTM D638
Flexural Strength	138 MPa	20000 psi	at rupture; ASTM D790
Flexural Modulus	15.9 GPa	2310 ksi	ASTM D790
Compressive Strength	230 MPa	33400 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	19.4 Âµm/m-Â°C	10.8 Âµin/in-Â°F	post baked; ASTM E831
	28.5 Âµm/m-Â°C	15.8 Âµin/in-Â°F	as molded; ASTM E831
CTE, linear, Transverse to Flow	26.4 Âµm/m-Â°C	14.7 Âµin/in-Â°F	post baked; ASTM E831
	40.9 Âµm/m-Â°C	22.7 Âµin/in-Â°F	as molded; ASTM E831
Maximum Service Temperature, Air	130 Â°C	266 Â°F	UL Temperature Index; UL 746B

Thermal Properties Deflection Temperature at 1.8 MPa (100 psi)	Metric 165 Å°C	English 329 Å°F	As Molded: ASTM D648A Comments
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.8 @Frequency 1.00e+6 Hz	3.8 @Frequency 1.00e+6 Hz	wet; ASTM D150
Dielectric Strength	13.2 kV/mm @Frequency 60.0 Hz	335 kV/in @Frequency 60.0 Hz	step-by-step, wet; ASTM D149
	13.6 kV/mm @Frequency 60.0 Hz	345 kV/in @Frequency 60.0 Hz	short time, wet; ASTM D149
Dissipation Factor	0.016 @Frequency 1.00e+6 Hz	0.016 @Frequency 1.00e+6 Hz	wet; ASTM D150
Arc Resistance	180 sec	180 sec	ASTM D495

Descriptive Properties	Value	Comments
Color	Black	
Form	Granular	
Molding Method	Compression	
	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