

Sumitomo Bakelite North America E 16521A Electrical Encapsulation Grade Epoxy

Category : Polymer , Thermoset , Epoxy , Epoxy Encapsulant, Unreinforced

Material Notes:

E-16521A is an encapsulation grade epoxy molding compound suitable for electrical applications such as coils. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-E-16521A-Electrical-Encapsulation-Grade-Epoxy.php

Physical Properties	Metric	English	Comments
Bulk Density	0.800 g/cc	0.0289 lb/in ³	ASTM D1895
Density	1.60 g/cc	0.0578 lb/in ³	ASTM D792
Water Absorption	0.25 % @Temperature 50.0 Â°C, Time 173000 sec	0.25 % @Temperature 122 Â°F, Time 48.0 hour	ASTM D570
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	62.0 MPa	8990 psi	ASTM D638
Flexural Strength	104 MPa	15100 psi	at rupture; ASTM D790
Flexural Modulus	7.00 GPa	1020 ksi	ASTM D790
Compressive Strength	172 MPa	24900 psi	ASTM D695
Izod Impact, Notched	0.190 J/cm	0.356 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	40.0 Âµm/m-Â°C	22.2 Âµin/in-Â°F	ASTM E831
Deflection Temperature at 1.8 MPa (264 psi)	122 Â°C	252 Â°F	Post Baked; ASTM D648A

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.4 @Frequency 1.00e+6 Hz	4.4 @Frequency 1.00e+6 Hz	wet; ASTM D150
Dielectric Strength	14.0 kV/mm	356 kV/in	step-by-step, dry; ASTM D149

Electrical Properties	@Frequency 60.0 Hz Metric	@Frequency 60.0 Hz English	Comments
	17.0 kV/mm	432 kV/in	short time, dry; ASTM D149
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
Dissipation Factor	0.015	0.015	wet; ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Arc Resistance	120 sec	120 sec	ASTM D495

Descriptive Properties	Value	Comments
Color	Black	
Form	Granular	
Molding Method	Compression	
	Transfer	

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