

Sumitomo Bakelite North America E 3938A Hardware Grade Epoxy

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

Material Notes:

Fiberglass reinforced epoxy molding compound with excellent dimensional stability, good strength and excellent electrical insulation properties. Information provided by Vyncolit, a Sumitomo Bakelite Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-E-3938A-Hardware-Grade-Epoxy.php

Physical Properties	Metric	English	Comments
Bulk Density	0.750 g/cc	0.0271 lb/in ³	Powder Density; ASTM D1895
Density	1.90 g/cc	0.0686 lb/in ³	Relative Density; 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	0.0010 cm/cm	0.0010 in/in	Compression Molding; ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	85.0 MPa	12300 psi	ASTM D638
Flexural Strength	160 MPa	23200 psi	At Rupture; ASTM D790
Compressive Strength	250 MPa	36300 psi	ASTM D695
Izod Impact, Notched	0.270 J/cm	0.506 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	28.0 Âµm/m-Â°C @Temperature 20.0 Â°C	15.6 Âµin/in-Â°F @Temperature 68.0 Â°F	Perpendicular; ASTM E-831
CTE, linear, Parallel to Flow	19.0 Âµm/m-Â°C @Temperature 20.0 Â°C	10.6 Âµin/in-Â°F @Temperature 68.0 Â°F	ASTM E-831
Deflection Temperature at 1.8 MPa (264 psi)	215 Â°C	419 Â°F	As molded; ASTM D648A
	>= 282 Â°C	>= 540 Â°F	Post Baked; ASTM D648A
Oxygen Index	33.5 %	33.5 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.1 @Frequency 1e+6 Hz	4.1 @Frequency 1e+6 Hz	Wet; ASTM D150
Dielectric Strength	16.4 kV/mm	417 kV/in	60Hz, Short Time, dry; ASTM D149
Dissipation Factor	0.010 @Frequency 1e+6 Hz	0.010 @Frequency 1e+6 Hz	wet; ASTM D150
Arc Resistance	186 sec	186 sec	ASTM D495

Descriptive Properties	Value	Comments
Color	Black, Blue	
Form	Granular	
Main Filler	Glass Fiber	
Molding Method	Compression, transfer	

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