

Sumitomo Bakelite North America E 8398 Hardware Grade Epoxy

Category : Polymer , Thermoset , Epoxy , Filled/Reinforced Thermoset

Material Notes:

Fiberglass and mineral reinforced epoxy molding compound with excellent dimensional stability, good electrical insulation properties, and good strength.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-8398-Hardware-Grade-Epoxy.php

Physical Properties	Metric	English	Comments
Bulk Density	0.900 g/cc	0.0325 lb/in ³	Powder Density; ASTM D1895
Density	1.98 g/cc	0.0715 lb/in ³	Relative Density; ASTM D792
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	Compression Molding; ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	76.0 MPa	11000 psi	ASTM D638
Flexural Strength	140 MPa	20300 psi	At Rupture; ASTM D790
Flexural Modulus	17.0 GPa	2470 ksi	ASTM D790
Compressive Strength	280 MPa	40600 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	24.0 Âµm/m-Â°C	13.3 Âµin/in-Â°F	ASTM E-831
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
Thermal Conductivity	0.840 W/m-K	5.83 BTU-in/hr-ftÂ²-Â°F	ASTM C-518
Deflection Temperature at 1.8 MPa (264 psi)	220 Â°C	428 Â°F	As molded; ASTM D648A
	>= 282 Â°C	>= 540 Â°F	Post Baked; ASTM D648A

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.9	3.9	Wet; ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	15.4 kV/mm	391 kV/in	60Hz, Step-by-Step, wet; ASTM D149

Electrical Properties	16.2 kV/mm Metric	411 kV/in English	60Hz, Step-by-Step, dry; ASTM D149 Comments
	21.1 kV/mm	536 kV/in	60Hz, Short Time, wet; ASTM D149
	22.0 kV/mm	559 kV/in	60Hz, Short Time, dry; ASTM D149
Dissipation Factor	0.014 @Frequency 1e+6 Hz	0.014 @Frequency 1e+6 Hz	wet; ASTM D150
Arc Resistance	180 sec	180 sec	ASTM D495

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

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