

Sumitomo Bakelite North America 2008A Glass Reinforced Hardware Grade Epoxy

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

Material Notes:

Epoxy is the premier material for military firewall connectors. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-2008A-Glass-Reinforced-Hardware-Grade-Epoxy.php

Physical Properties	Metric	English	Comments
Density	1.85 g/cc	0.0668 lb/in ³	ASTM D792
Water Absorption	0.20 %	0.20 %	48 hours, 50 ^o C. ASTM D570
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	Compression Molding. ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	72	72	
Tensile Strength, Ultimate	62.0 MPa	8990 psi	ASTM D638
Flexural Yield Strength	124 MPa	18000 psi	ASTM D790
Flexural Modulus	15.2 GPa	2200 ksi	ASTM D790
Compressive Yield Strength	207 MPa	30000 psi	ASTM D695
Izod Impact, Notched	0.350 J/cm	0.656 ft-lb/in	ASTM D256A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	37.0 $\mu\text{m}/\text{m}\cdot\text{C}^{\circ}$ @Temperature 20.0 C°	20.6 $\mu\text{in}/\text{in}\cdot\text{F}^{\circ}$ @Temperature 68.0 F°	ASTM D696
Thermal Conductivity	0.691 W/m-K	4.80 BTU-in/hr-ft ² - F°	ASTM F433
Deflection Temperature at 1.8 MPa (264 psi)	260 C°	500 F°	ASTM D648A
Oxygen Index	50 %	50 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.0	4.0	Wet; ASTM D150
Dielectric Strength	12.0 kV/mm	305 kV/in	Wet, short term. ASTM D149

Electrical Properties	Metric	English	Comments
Dielectric Factor	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	Ref. ASTM D150
Arc Resistance	180 sec	180 sec	ASTM D495

Processing Properties	Metric	English	Comments
Mold Temperature	143 - 177 Â°C	289 - 351 Â°F	compression/transfer molding.
	174 - 182 Â°C	345 - 360 Â°F	injection molding.

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