

Sumitomo Bakelite North America 1907-1 / 1907B-1 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-1907-1-1907B-1-Glass-Reinforced-Hardware-Grade-Epoxy.php

Physical Properties	Metric	English	Comments
Density	1.95 g/cc	0.0704 lb/in ³	ASTM D792
Water Absorption	0.30 %	0.30 %	48 hours, 50°C. ASTM D570
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	Compression Molding. ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	73	73	
Tensile Strength, Ultimate	65.0 MPa	9430 psi	ASTM D638
Flexural Yield Strength	117 MPa	17000 psi	ASTM D790
Flexural Modulus	13.8 GPa	2000 ksi	ASTM D790
Compressive Yield Strength	214 MPa	31000 psi	ASTM D695
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D256A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	47.0 µm/m-°C @Temperature 20.0 °C	26.1 µin/in-°F @Temperature 68.0 °F	ASTM D696
Thermal Conductivity	0.586 W/m-K	4.07 BTU-in/hr-ft ² -°F	ASTM F433
Deflection Temperature at 1.8 MPa (264 psi)	260 °C	500 °F	ASTM D648A
Oxygen Index	38 %	38 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.0	4.0	Wet; ASTM D150
Dielectric Strength	11.0 kV/mm	279 kV/in	Wet, short term. ASTM D149

Electrical Properties <i>Dissipation Factor</i>	Metric	English	Comments <i>Met, ASTM D150</i>
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	175 sec	175 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.

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