

Sumitomo Bakelite North America TEM 9053C Hardware Grade Epoxy

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

Material Notes:

Short fiberglass and mineral filled, toughened epoxy molding compound with excellent dimensional stability and high strength 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-TEM-9053C-Hardware-Grade-Epoxy.php

Physical Properties	Metric	English	Comments
Bulk Density	0.850 g/cc	0.0307 lb/in ³	Powder Density; ASTM D1895
Density	1.95 g/cc	0.0704 lb/in ³	Relative Density; ASTM D792
Water Absorption	0.050 % @Temperature 23.0 °C, Time 86400 sec	0.050 % @Temperature 73.4 °F, Time 24.0 hour	ASTM D570
Linear Mold Shrinkage	0.0025 cm/cm	0.0025 in/in	Compression Molding; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	70	70	ASTM D2583
Tensile Strength at Break	100 MPa	14500 psi	ASTM D638
Flexural Strength	160 MPa	23200 psi	At Rupture; ASTM D790
Flexural Modulus	16.6 GPa	2410 ksi	ASTM D790
Compressive Strength	235 MPa	34100 psi	ASTM D695
Izod Impact, Notched	0.270 J/cm	0.506 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	26.0 µm/m-°C @Temperature 20.0 °C	14.4 µin/in-°F @Temperature 68.0 °F	ASTM E-831
Thermal Conductivity	0.710 W/m-K	4.93 BTU-in/hr-ft ² -°F	ASTM C-518
Deflection Temperature at 1.8 MPa (264 psi)	160 °C	320 °F	Post Baked; ASTM D648A

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.2 @Frequency 1e+6 Hz	4.2 @Frequency 1e+6 Hz	Wet; ASTM D150

Electrical Properties	Metric	English	Comments
Dielectric Strength	16.0 kV/mm	406 kV/in	60Hz, Step-by-Step, wet; ASTM D149
Dissipation Factor	0.015 @Frequency 1e+6 Hz	0.015 @Frequency 1e+6 Hz	60Hz, Short Time, wet; ASTM D149 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, injection	

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