

Sumitomo Bakelite North America 4064 Mineral Filled Electrical Encapsulation Grade Epoxy

Category : Polymer , Thermoset , Epoxy , Epoxy, Encapsulating, Glass or Mineral Filled , Filled/Reinforced Thermoset

Material Notes:

Rogers electrical encapsulation grade epoxy is recommended for capacitors, resistors, gold lead encapsulation, relays, coils and bobbins. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-4064-Mineral-Filled-Electrical-Encapsulation-Grade-Epoxy.php

Physical Properties	Metric	English	Comments
Density	1.79 g/cc	0.0647 lb/in ³	ASTM D792
Water Absorption	0.10 %	0.10 %	48 hours, 50°C. ASTM D570
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	Compression Molding. ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	70	70	
Tensile Strength, Ultimate	41.0 MPa	5950 psi	ASTM D638
Flexural Yield Strength	131 MPa	19000 psi	ASTM D790
Flexural Modulus	19.0 GPa	2760 ksi	ASTM D790
Compressive Yield Strength	262 MPa	38000 psi	ASTM D695
Izod Impact, Notched	0.270 J/cm	0.506 ft-lb/in	ASTM D256A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 µm/m-°C @Temperature 20.0 °C	11.1 µin/in-°F @Temperature 68.0 °F	ASTM D696

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.5	3.5	Wet; ASTM D150
Dielectric Strength	13.0 kV/mm	330 kV/in	Wet, short term. ASTM D149
Dissipation Factor	0.019 @Frequency 1e+6 Hz	0.019 @Frequency 1e+6 Hz	Wet; 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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