

Sumitomo Bakelite North America E 8701A Short Glass Fiber Reinforced Epoxy

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

Material Notes:

E 8701A is a fiberglass and mineral reinforced epoxy molding compound, with excellent dimensional stability and good strength at elevated temperatures. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-E-8701A-Short-Glass-Fiber-Reinforced-Epoxy.php

Physical Properties	Metric	English	Comments
Bulk Density	0.900 g/cc	0.0325 lb/in ³	ASTM D1895
Density	2.01 g/cc	0.0726 lb/in ³	ASTM D792
Water Absorption	0.18 % @Temperature 50.0 Â°C, Time 173000 sec	0.18 % @Temperature 122 Â°F, Time 48.0 hour	ASTM D570
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	68.0 MPa	9860 psi	ASTM D638
Flexural Strength	114 MPa	16500 psi	at rupture; ASTM D790
Flexural Modulus	19.0 GPa	2760 ksi	ASTM D790
Compressive Strength	235 MPa	34100 psi	ASTM D695
Izod Impact, Notched	0.200 J/cm	0.375 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 282 Â°C	>= 540 Â°F	Post Baked; ASTM D648A

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.6 @Frequency 1.00e+6 Hz	4.6 @Frequency 1.00e+6 Hz	wet; ASTM D150
Dielectric Strength	16.0 kV/mm @Frequency 60.0 Hz	406 kV/in @Frequency 60.0 Hz	step-by-step, wet; ASTM D149
	18.5 kV/mm	470 kV/in	

Electrical Properties	Metric @Frequency 60.0 Hz	English @Frequency 60.0 Hz	short time wet; ASTM D149 Comments
Dissipation Factor	0.020	0.020	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	wet; ASTM D150
Arc Resistance	180 sec	180 sec	ASTM D495

Descriptive Properties	Value	Comments
Color	Black	
Form	Granular	
Molding Method	Compression	
	Transfer	

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