

Sumitomo Bakelite North America EM 7302XLD Long Glass Fiber Reinforced Epoxy

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

Material Notes:

EM 7302XLD is a long fiberglass reinforced epoxy molding compound with a low density inert filler. This compound is designed for applications where moderate strength and weight savings are desirable. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-EM-7302XLD-Long-Glass-Fiber-Reinforced-Epoxy.php

Physical Properties	Metric	English	Comments
Density	1.15 - 1.25 g/cc	0.0415 - 0.0452 lb/in ³	ASTM D792
Water Absorption	0.90 % @Temperature 50.0 Â°C, Time 173000 sec	0.90 % @Temperature 122 Â°F, Time 48.0 hour	ASTM D570
Linear Mold Shrinkage	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	48.0 MPa	6960 psi	ASTM D638
Flexural Strength	103 MPa	14900 psi	at rupture; ASTM D790
Flexural Modulus	11.0 GPa	1600 ksi	ASTM D790
Compressive Strength	166 MPa	24100 psi	ASTM D695
Izod Impact, Notched	2.70 J/cm	5.06 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 280 Â°C	>= 536 Â°F	Post Baked; ASTM D648A

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.8 @Frequency 1.00e+6 Hz	2.8 @Frequency 1.00e+6 Hz	wet; ASTM D150
Dielectric Strength	9.80 kV/mm @Frequency 60.0 Hz	249 kV/in @Frequency 60.0 Hz	step-by-step, wet; ASTM D149
Dissipation Factor	0.026	0.026	wet; ASTM D150

Electrical Properties	@Frequency 1.00e+6 Metric Hz	@Frequency 1.00e+6 English Hz	Comments
Arc Resistance	120 sec	120 sec	ASTM D495

Descriptive Properties	Value	Comments
Color	Natural	
Form	Coarse Flake	
Molding Method	Compression	
	Transfer	

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