

Sumitomo Bakelite North America E 2748-9641D Short Glass Fiber Reinforced Epoxy

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

Material Notes:

E 2748-9641D is a mineral and short fiberglass filled epoxy molding compound. 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-2748-9641D-Short-Glass-Fiber-Reinforced-Epoxy.php

Physical Properties	Metric	English	Comments
Bulk Density	0.800 g/cc	0.0289 lb/in ³	ASTM D1895
Density	1.80 g/cc	0.0650 lb/in ³	ASTM D792
Water Absorption	0.15 % @Temperature 50.0 Â°C, Time 173000 sec	0.15 % @Temperature 122 Â°F, Time 48.0 hour	ASTM D570
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	71.0 MPa	10300 psi	ASTM D638
Flexural Strength	145 MPa	21000 psi	at rupture; ASTM D790
Flexural Modulus	19.0 GPa	2760 ksi	ASTM D790
Compressive Strength	240 MPa	34800 psi	ASTM D695
Izod Impact, Notched	0.310 J/cm	0.581 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	27.0 Âµm/m-Â°C	15.0 Âµin/in-Â°F	ASTM E831
Deflection Temperature at 1.8 MPa (264 psi)	150 Â°C	302 Â°F	As Molded; ASTM D648A
	>= 280 Â°C	>= 536 Â°F	Post Baked; ASTM D648A

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.0 @Frequency 1.00e+6 Hz	4.0 @Frequency 1.00e+6 Hz	wet; ASTM D150

Electrical Properties	Metric	English	Comments
Dielectric Strength	13.2 kV/mm	335 kV/in	step-by-step, wet; ASTM D149
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
	15.3 kV/mm	389 kV/in	short time, wet; ASTM D149
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
Dissipation Factor	0.020	0.020	wet; ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Arc Resistance	180 sec	180 sec	ASTM D495

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

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