

Cosmic Plastics E484 Glass Filled Epoxy Molding Compound, Electrical Grade

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

Material Notes:

Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cosmic-Plastics-E484-Glass-Filled-Epoxy-Molding-Compound-Electrical-Grade.php

Physical Properties	Metric	English	Comments
Density	1.95 g/cc	0.0704 lb/in ³	
Apparent Bulk Density	0.780 g/cc	0.0282 lb/in ³	
Water Absorption	0.20 %	0.20 %	48 hrs, 50°C
Linear Mold Shrinkage	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	typical.

Mechanical Properties	Metric	English	Comments
Hardness, Barcol	70	70	
Tensile Strength, Ultimate	97.0 MPa	14100 psi	
Flexural Strength	131 MPa	19000 psi	
Flexural Modulus	18.0 GPa	2610 ksi	
Compressive Strength	207 MPa	30000 psi	
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.4187 W/m-K	2.906 BTU-in/hr-ft ² -°F	
Deflection Temperature at 1.8 MPa (264 psi)	>= 230 °C	>= 446 °F	
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	
Dielectric Constant	4.7 @Frequency 1e+6 Hz	4.7 @Frequency 1e+6 Hz	Wet

Electrical Properties	Metric	English	Comments
	@Frequency 1000 Hz	@Frequency 1000 Hz	Wet
Dielectric Strength	14.0 kV/mm	356 kV/in	Wet, Step by Step
Dissipation Factor	0.0080	0.0080	Wet
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.011	0.011	Wet
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Arc Resistance	186 sec	186 sec	

Processing Properties	Metric	English	Comments
Processing Temperature	150 - 175 °C	302 - 347 °F	Molding temperature

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