

Cosmic Plastics E4940 Mineral & Glass Filled Epoxy Molding Compound, Encapsulated Grade

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

Material Notes:

Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cosmic-Plastics-E4940-Mineral-Glass-Filled-Epoxy-Molding-Compound-Encapsulated-Grade.php

Physical Properties	Metric	English	Comments
Density	1.85 g/cc	0.0668 lb/in ³	
Apparent Bulk Density	0.740 g/cc	0.0267 lb/in ³	
Water Absorption	0.25 %	0.25 %	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	65	65	
Tensile Strength, Ultimate	83.0 MPa	12000 psi	
Flexural Strength	103 MPa	14900 psi	
Flexural Modulus	14.0 GPa	2030 ksi	
Compressive Strength	193 MPa	28000 psi	
Izod Impact, Notched	0.270 J/cm	0.506 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	25.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	13.9 $\mu\text{in}/\text{in}\cdot\text{°F}$	Alpha 1
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	70.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	38.9 $\mu\text{in}/\text{in}\cdot\text{°F}$	Alpha 2
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.66992 W/m-K	4.6492 BTU-in/hr-ft ² -°F	
Deflection Temperature at 1.8 MPa (264 psi)	≥ 200 °C	≥ 392 °F	
Glass Transition Temp, Tg	160 °C	320 °F	

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	3.9	3.9	Wet
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	4.3	4.3	Wet
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	14.0 kV/mm	356 kV/in	Wet, Step by Step
Dissipation Factor	0.011	0.011	Wet
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.012	0.012	Wet
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Arc Resistance	180 sec	180 sec	

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

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