

Cosmic Plastics E4905 Mineral 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-E4905-Mineral-Filled-Epoxy-Molding-Compound-Encapsulated-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	0.25 %	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	60	60	
Tensile Strength, Ultimate	55.0 MPa	7980 psi	
Flexural Strength	83.0 MPa	12000 psi	
Flexural Modulus	14.0 GPa	2030 ksi	
Compressive Strength	241 MPa	35000 psi	
Izod Impact, Notched	0.270 J/cm	0.506 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	16.7 $\mu\text{in}/\text{in}\cdot\text{°F}$	Alpha 1
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	80.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	44.4 $\mu\text{in}/\text{in}\cdot\text{°F}$	Alpha 2
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	1.2561 W/m-K	8.7173 BTU-in/hr-ft ² -°F	
Deflection Temperature at 1.8 MPa (264 psi)	≥ 200 °C	≥ 392 °F	
Glass Transition Temp, Tg	110 °C	230 °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	4.2	4.2	Wet
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Constant	4.8	4.8	Wet
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	13.0 kV/mm	330 kV/in	Wet, Step by Step
Dissipation Factor	0.010	0.010	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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