

Cosmic Plastics E4920 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-E4920-Mineral-Filled-Epoxy-Molding-Compound-Encapsulated-Grade.php

Physical Properties	Metric	English	Comments
Density	1.90 g/cc	0.0686 lb/in ³	
Apparent Bulk Density	0.760 g/cc	0.0275 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	241 MPa	35000 psi	
Izod Impact, Notched	0.270 J/cm	0.506 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	25.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	13.9 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	Alpha 1
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
CTE, linear, Transverse to Flow	70.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	38.9 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	Alpha 2
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Thermal Conductivity	0.66992 W/m-K	4.6492 BTU-in/hr-ft ² - $^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	$\geq 200\text{ }^\circ\text{C}$	$\geq 392\text{ }^\circ\text{F}$	
Glass Transition Temp, Tg	165 $^\circ\text{C}$	329 $^\circ\text{F}$	
	V-0	V-0	

Flammability: UL 94			
Thermal Properties	Metric	English	Comments
	@ Thickness 3.20 mm	@ Thickness 0.126 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	3.9	3.9	Wet
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	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	
	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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