

Cosmic Epoxy E4930R

Epoxy; Epoxide
Cosmic Plastics, Inc.

Message:

DESCRIPTION

Cosmic E4930R is a mineral filled, application specific epoxy molding compound which is supplied in a granular form.

FEATURES

It has excellent moisture resistance and thermal cycling stability. Standard spiral flow range is 30-40" (EMMI) at 160°C and 1000 psi, and a flow duration of 40-50 seconds at 325 - 1000 psi. It has a hot plate gel time of 35-45 seconds at 160°C.

APPLICATIONS

Used to encapsulate optocouplers, capacitors, resistors, resistor networks, transistors, SOIS's and QFP.

General Information			
Filler / Reinforcement	Mineral		
Features	Moisture Resistant		
Uses	Electrical Parts		
Forms	Granules		
Processing Method	Encapsulating		
Physical	Nominal Value	Unit	
Specific Gravity	1.85	g/cm ³	
Bulk Factor	2.0 to 5.0		
Molding Shrinkage - Flow	0.20 to 0.40	%	
Water Absorption ¹ (Equilibrium, 50°C)	0.25	%	
Hardness	Nominal Value	Unit	
Barcol Hardness	65		
Mechanical	Nominal Value	Unit	
Tensile Strength	82.7	MPa	
Flexural Modulus	13800	MPa	
Flexural Strength	103	MPa	
Compressive Strength	193	MPa	
Impact	Nominal Value	Unit	
Notched Izod Impact	32	J/m	
Thermal	Nominal Value	Unit	
Glass Transition Temperature	165	°C	
CLTE - Flow			
-- ²	2.5E-5	cm/cm/°C	
-- ³	8.0E-5	cm/cm/°C	
Thermal Conductivity	1.3	W/m/K	
Heat Distortion	260	°C	
Dielectric Breakdown - Wet	56000	V	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	

Volume Resistivity	1.0E+15	ohms·cm	
Dielectric Strength ⁴ (Wet)	14	kV/mm	
Dielectric Constant ⁵			
1 kHz	4.20		
1 MHz	4.50		
Dissipation Factor ⁶			
1 kHz	0.012		
1 MHz	0.011		
Arc Resistance	180	sec	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.18 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Processing (Melt) Temp	150 to 180	°C	
Injection Pressure	3.45 to 55.2	MPa	
NOTE			
1.	48 hrs		
2.	Alpha 1		
3.	Alpha 2		
4.	Method B (Step-by-Step)		
5.	Wet		
6.	Wet		

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