

Cosmic Epoxy E4940P

Epoxy; Epoxide
Cosmic Plastics, Inc.

Message:

DESCRIPTION

Cosmic E4940P is a mineral filled, glass reinforced epoxy molding compound which is supplied in a granular form.

FEATURES

It has excellent dimensional stability, improved thermal cycling and exceptional moisture resistance. Standard spiral flow range is 25-35" (EMMI) at 150°C and 1000 psi. It has a hot plate gel time of 22-30 seconds at 160°C, and 18-26 seconds at 182°C. It has a shelf life of eight months when stored at 5°C.

APPLICATIONS

It is designed for use in high-volume encapsulation of resistor networks and fiber-optic connectors requiring high quality, reliability and good moldability.

General Information		
Filler / Reinforcement	Glass Fiber	
	Mineral	
Features	Good Dimensional Stability	
	Good Moldability	
	Moisture Resistant	
Uses	Connectors	
	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	27	J/m
Thermal	Nominal Value	Unit
Glass Transition Temperature	175	°C
CLTE - Flow		

-- ²	2.5E-5	cm/cm/°C
-- ³	7.0E-5	cm/cm/°C
Thermal Conductivity	0.67	W/m/K
Heat Distortion	260	°C
Dielectric Breakdown - Wet	56000	V
Electrical	Nominal Value	Unit
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	3.90	
1 MHz	4.30	
Dissipation Factor ⁶		
1 kHz	0.012	
1 MHz	0.011	
Arc Resistance	180	sec
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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