

Cosmic Epoxy E4940S

Epoxy; Epoxide
Cosmic Plastics, Inc.

Message:

DESCRIPTION
Cosmic E4940S is a mineral filled 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		
UL YellowCard	E64213-247569	
Filler / Reinforcement	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	2.0E-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	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	3.90		
1 MHz	4.30		
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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