

FARBOSET® 2460

Epoxy; Epoxide

Cosmic Plastics, Inc.

Message:

Cosmic FARBOSET 2460 is a mineral-filled epoxy molding compound featuring fast cure rates, excellent moldability and superior thermal shock and moisture resistance. This compound was especially formulated for improved resistance to moisture ingress along with a high glass transition temperature for optimum reliability performance. It is designed to encapsulate a wide range of devices including tantalum and ceramic capacitors, resistors, resistor networks and high performance coils.

General Information			
Filler / Reinforcement	Mineral		
Features	Fast Cure		
	Good Moldability		
	Good Thermal Shock Resistance		
	Moisture Resistant		
Uses	Electrical/Electronic Applications		
Appearance	Colors Available		
Forms	Granules		
Processing Method	Encapsulating		
Physical	Nominal Value	Unit	
Specific Gravity			
--	1.88	g/cm ³	
-- ¹	2.14	g/cm ³	
Apparent Density ²	1.00	g/cm ³	
Spiral Flow	79.0	cm	
Molding Shrinkage - Flow	0.40	%	
Mechanical	Nominal Value	Unit	
Tensile Strength	55.2	MPa	
Flexural Modulus	13400	MPa	
Flexural Strength	89.6	MPa	
Compressive Strength	172	MPa	
Thermal	Nominal Value	Unit	
Glass Transition Temperature	165	°C	
CLTE - Flow ³	4.1E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.8E+15	ohms · cm	
Dielectric Strength (3.18 mm)	14	kV/mm	
Dielectric Constant			
60 Hz	5.60		
10 kHz	5.40		

1 MHz	5.20		
Dissipation Factor			
60 Hz	0.014		
10 kHz	0.018		
1 MHz	0.012		
Flammability	Nominal Value	Unit	Test Method
Flame Rating (6.35 mm, Tested by Cosmic Plastics)	V-0		UL 94
Thermoset	Nominal Value	Unit	
Shelf Life ⁴			
4°C	52	wk	
25°C	1.0	wk	
35°C	0.29	wk	
Uncured Properties	Nominal Value	Unit	
Curing Time			
150°C ⁵	7.5E-3	hr	
150°C	0.017 to 0.033	hr	
Injection	Nominal Value	Unit	
Processing (Melt) Temp	145 to 180	°C	
Injection Pressure	1.38 to 6.89	MPa	
NOTE			
1.	Molded		
2.	Powder		
3.	Alpha 1		
4.	Defined as not more than 40% loss of spiral flow based on original values.		
5.	Hot Plate Cure Time		

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