

FARBOSET® 1115

Epoxy; Epoxide

Cosmic Plastics, Inc.

Message:

Cosmic FARBOSET 1115 Black is a mineral filled epoxy molding compound featuring fast cure rates, and excellent hot strength. It is designed for the encapsulation of coils, transformers, bushings, switches and other electrical and electronic components requiring good hot rigidity in molding. This material is used extensively in injection and transfer molding.

General Information		
Filler / Reinforcement	Mineral	
Features	Fast Cure	
	High Rigidity	
Uses	Electrical/Electronic Applications	
Appearance	Black	
Forms	Granules	
Processing Method	Encapsulating	
	Injection Molding	
	Resin Transfer Molding	
Physical	Nominal Value	Unit
Density ¹	2.04	g/cm ³
Apparent Density ²	1.00	g/cm ³
Spiral Flow	71.0	cm
Molding Shrinkage - Flow	0.50	%
Water Absorption (23°C, 24 hr)	0.026	%
Hardness	Nominal Value	Unit
Durometer Hardness (Shore D)	97	
Mechanical	Nominal Value	Unit
Tensile Strength	86.2	MPa
Flexural Modulus	17200	MPa
Flexural Strength	124	MPa
Compressive Strength	276	MPa
Impact	Nominal Value	Unit
Notched Izod Impact	21	J/m
Thermal	Nominal Value	Unit
Deflection Temperature Under Load (1.8 MPa, Unannealed)	110	°C
Glass Transition Temperature	130	°C
CLTE - Flow		
-- ³	3.2E-5	cm/cm/°C

-- ⁴	8.7E-5	cm/cm/°C	
Thermal Conductivity	1.3	W/m/K	
Maximum Operating Temperature - Intermittent	200	°C	
Loss Factor - 1 kHz	0.0320		
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+16	ohms	
Volume Resistivity	> 5.0E+16	ohms·cm	
Dielectric Strength ⁵ (3.18 mm)	> 16	kV/mm	
Dielectric Constant (1 kHz)	4.50		
Dissipation Factor (1 kHz)	7.0E-3		
Arc Resistance	180	sec	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	V-0		UL 94
Thermoset	Nominal Value	Unit	
Shelf Life ⁶			
5°C	52	wk	
25°C	1.0	wk	
35°C	0.29	wk	
Uncured Properties	Nominal Value	Unit	
Curing Time			
150°C ⁷	8.3E-3	hr	
150°C	0.017 to 0.050	hr	
Injection	Nominal Value	Unit	
Processing (Melt) Temp	150 to 180	°C	
Injection Pressure	0.345 to 6.89	MPa	
NOTE			
1.	Molded		
2.	Powder		
3.	Alpha 1		
4.	Alpha 2		
5.	Method A (Short-Time)		
6.	Defined as not more than 40% loss of spiral flow based on original values.		
7.	Hot Plate Cure Time		

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Recommended distributors for this material

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