

# FARBOSET® 1160

Epoxy; Epoxide

Cosmic Plastics, Inc.

## Message:

Cosmic FARBOSET 1160 Black is a mineral filled epoxy molding compound featuring fast cure rates, long flow and excellent thermal shock resistance. It is designed for the encapsulation of coils, transformers, capacitors, diodes, relays, and other electrical and electronic components requiring good hot rigidity in molding.

General Information			
Filler / Reinforcement	Mineral		
Features	Fast Cure		
	Good Thermal Shock Resistance		
	High Rigidity		
Uses	Electrical/Electronic Applications		
Appearance	Black		
Forms	Granules		
Processing Method	Encapsulating		
Physical	Nominal Value	Unit	
Density <sup>1</sup>	1.97	g/cm <sup>3</sup>	
Apparent Density <sup>2</sup>	0.95	g/cm <sup>3</sup>	
Spiral Flow	89.0	cm	
Molding Shrinkage - Flow	0.60	%	
Hardness	Nominal Value	Unit	
Durometer Hardness (Shore D)	80		
Mechanical	Nominal Value	Unit	
Tensile Strength	75.8	MPa	
Flexural Strength	117	MPa	
Compressive Strength	228	MPa	
Impact	Nominal Value	Unit	
Notched Izod Impact	19	J/m	
Thermal	Nominal Value	Unit	
Deflection Temperature Under Load (1.8 MPa, Unannealed)	100	°C	
Thermal Conductivity	1.0	W/m/K	
Maximum Operating Temperature - Intermittent	190	°C	
Loss Factor - 1 kHz	0.0140		
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+16	ohms	
Volume Resistivity	9.5E+15	ohms · cm	

Dielectric Strength <sup>3</sup> (3.18 mm)	15	kV/mm	
Dielectric Constant (1 kHz)	3.50		
Dissipation Factor (1 kHz)	4.0E-3		
Arc Resistance	180	sec	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	HB		UL 94
Thermoset	Nominal Value	Unit	
Shelf Life <sup>4</sup>			
5°C	52	wk	
25°C	1.0	wk	
35°C	0.29	wk	
Uncured Properties	Nominal Value	Unit	
Curing Time			
150°C <sup>5</sup>	0.011	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.	Method A (Short-Time)		
4.	Defined as not more than 40% loss of spiral flow based on original values.		
5.	Hot Plate Cure Time		

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#### Recommended distributors for this material

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