

FARBOSET® 1190

Epoxy; Epoxide

Cosmic Plastics, Inc.

Message:

Cosmic FARBOSET 1190 Black is a fast curing, mineral & glass filled, epoxy molding compound with improved strength properties. It is designed for the encapsulation of coils, transformers, switches and other electrical and electronic components requiring excellent thermal shock resistance. This material exhibits superior resistance to cracking.

General Information		
Filler / Reinforcement	Glass Fiber	
	Mineral	
Features	Fast Cure	
	Good Crack Resistance	
	Good Thermal Shock Resistance	
Uses	Electrical/Electronic Applications	
Appearance	Black	
Forms	Granules	
Processing Method	Encapsulating	
Physical	Nominal Value	Unit
Density ¹	1.91	g/cm ³
Apparent Density ²	1.00	g/cm ³
Spiral Flow	69.0	cm
Molding Shrinkage - Flow	0.50	%
Hardness	Nominal Value	Unit
Durometer Hardness (Shore D)	85	
Mechanical	Nominal Value	Unit
Tensile Strength	96.5	MPa
Flexural Strength	138	MPa
Compressive Strength	241	MPa
Impact	Nominal Value	Unit
Notched Izod Impact	32	J/m
Thermal	Nominal Value	Unit
Deflection Temperature Under Load (1.8 MPa, Unannealed)	110	°C
Thermal Conductivity	0.84	W/m/K
Maximum Operating Temperature - Intermittent	200	°C
Loss Factor - 1 kHz	0.0150	
Electrical	Nominal Value	Unit

Surface Resistivity	1.0E+16	ohms
Volume Resistivity	1.0E+16	ohms·cm
Dielectric Strength ³ (3.18 mm)	14	kV/mm
Dielectric Constant (1 kHz)	3.80	
Dissipation Factor (1 kHz)	4.0E-3	
Arc Resistance	200	sec
Thermoset	Nominal Value	Unit
Shelf Life ⁴		
5°C	52	wk
25°C	1.0	wk
35°C	0.29	wk
Uncured Properties	Nominal Value	Unit
Curing Time		
150°C ⁵	0.012	hr
150°C	0.025 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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