# Cosmic Epoxy E4920FC

### Epoxy; Epoxide

Cosmic Plastics, Inc.

### Message:

#### DESCRIPTION

Cosmic E4920FC is a mineral filled epoxy molding compound which is available either in a granular form, or preformed in a variety of sizes and weights.

It has excellent moisture resistance, thermal cycling stability and outstanding moldability. Parts molded from this material do not support fungus growth. It is available in a wide flow range to suit custom molding requirements. E4920FC can be supplied in black, gold, green or red . It has a shelf life of eight months when stored at 5°C.

#### **APPLICATIONS**

It is designed for encapsulation of passive devices such as capacitors, inductors, diodes and rectifiers.

General Information				
Filler / Reinforcement	Mineral			
Features	Fungus Resistant			
	Good Moldability			
	Moisture Resistant			
Uses	Electrical Parts			
Agency Ratings	ASTM D 5948, Type MEC			
	ASTM D 5948, Type MEE			
	ASTM D 5948, Type MEG			
	ASTM D 5948, Type MEH			
	MIL M-14, Type MEC			
	MIL M-14, Type MEE			
	MIL M-14, Type MEG			
	MIL M-14, Type MEH			
Appearance	Black			
	Gold			
	Green			
	Red			
	Reu			
Forms	Granules			
	Preformed Parts			
Processing Method	Encapsulating			
Physical	Nominal Value	Unit		
Specific Gravity	1.85	g/cm³		
Bulk Factor	2.0 to 5.0			
Molding Shrinkage - Flow	0.20 to 0.40	%		

Nominal Value 65  Nominal Value 82.7	% Unit Unit	
Nominal Value	Unit	
Nominal Value 82.7		
82.7		
	MPa	
13800	MPa	
128	MPa	
241	MPa	
Nominal Value	Unit	
27	J/m	
Nominal Value	Unit	
175	°C	
1.9E-5	cm/cm/°C	
7.0E-5	cm/cm/°C	
0.84	W/m/K	
260	°C	
56000	V	
Nominal Value	Unit	Test Method
4.0E+16	ohms	
5.5E+15	ohms·cm	
16	kV/mm	
3.90		
4.30		
0.012		
0.011		
180	sec	
Nominal Value	Unit	Test Method
V-0		UL 94
Nominal Value	Unit	
150 to 180	°C	
2.07 to 6.89	MPa	
48 hrs		
Alpha 1		
Alpha 2		
Method B (Step-by-Step)		
Wet		
	Nominal Value 27 Nominal Value 175 1.9E-5 2.0E-5 2.0E-5 2.0E-16 3.5E+15 6 3.90 1.30 2.012 2.011 80 Nominal Value 7-0 Nominal Value 50 to 180 2.07 to 6.89	Nominal Value

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#### Recommended distributors for this material

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