

# FARBOSET® 2461

Epoxy; Epoxide

Cosmic Plastics, Inc.

## Message:

Cosmic FARBOSET 2461 Black is a mineral-filled epoxy molding compound featuring fast cure rates, superb moldability, excellent thermal shock and moisture resistance. This compound was especially formulated to achieve a high glass transition temperature for optimum reliability performance in very thin sections. It is designed to encapsulate a wide range of devices including capacitors, resistors, and inductor coils.

General Information			
Filler / Reinforcement	Mineral		
Features	Fast Cure		
	Good Moldability		
	Good Thermal Shock Resistance		
	Moisture Resistant		
Uses	Electrical/Electronic Applications		
Appearance	Black		
	Colors Available		
Forms	Granules		
Processing Method	Encapsulating		
Physical	Nominal Value	Unit	
Specific Gravity			
--	1.88	g/cm <sup>3</sup>	
-- <sup>1</sup>	2.08	g/cm <sup>3</sup>	
Apparent Density <sup>2</sup>	0.90	g/cm <sup>3</sup>	
Spiral Flow	76.0	cm	
Molding Shrinkage - Flow	0.40	%	
Mechanical	Nominal Value	Unit	
Tensile Strength	56.5	MPa	
Flexural Modulus	13400	MPa	
Flexural Strength	85.5	MPa	
Compressive Strength	236	MPa	
Thermal	Nominal Value	Unit	
Glass Transition Temperature	163	°C	
CLTE - Flow			
-- <sup>3</sup>	2.7E-5	cm/cm/°C	
-- <sup>4</sup>	6.0E-5	cm/cm/°C	
Thermal Conductivity	0.96	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.5E+15	ohms	

Volume Resistivity	2.2E+15	ohms·cm	
Dielectric Strength (6.35 mm)	15	kV/mm	
Dielectric Constant (1 kHz)	5.12		
Dissipation Factor (1 kHz)	0.012		
Arc Resistance	194	sec	
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Flame Rating (3.18 mm, Tested by Cosmic Plastics)	V-0		UL 94
<b>Thermoset</b>	<b>Nominal Value</b>	<b>Unit</b>	
<b>Shelf Life <sup>5</sup></b>			
4°C	52	wk	
25°C	1.0	wk	
35°C	0.29	wk	
Post Cure Time (150°C)	4.0	hr	
<b>Uncured Properties</b>	<b>Nominal Value</b>	<b>Unit</b>	
<b>Curing Time</b>			
150°C <sup>6</sup>	8.6E-3	hr	
150°C	0.017 to 0.033	hr	
<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>	
Processing (Melt) Temp	145 to 180	°C	
Injection Pressure	1.38 to 6.89	MPa	
<b>NOTE</b>			
1.	Molded		
2.	Powder		
3.	Alpha 1		
4.	Alpha 2		
5.	Defined as not more than 40% loss of spiral flow based on original values.		
6.	Hot Plate Cure Time		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

