



**Cosmic Plastics Inc**  
HELPING MOLD THE FUTURE



Registered To ISO 9001:2015  
Ref. No. 10000711

## TECHNICAL DATA SHEET

**FARBOSET® 2460**

**DESCRIPTION** Cosmic FARBOSET 2460 is a mineral-filled novolac epoxy molding compound featuring fast cure rates, excellent moldability and superior thermal shock and moisture resistance.

**APPLICATIONS** This compound was especially formulated for improved resistance to moisture ingress along with a high glass transition temperature for optimum reliability performance. It is designed to encapsulate a wide range of devices including tantalum and ceramic capacitors, resistors, resistor networks and high performance coils.

### MATERIAL INFORMATION & PROPERTIES

MOLDING INFORMATION	SPECIFICATIONS	DATA
Bulk Density (powder)	gm/cc	1.0
Molding Pressure	kg/cm <sup>2</sup> psi	14 – 70 200 – 1,000
Molding Temperature	°C °F	145 – 180 293 – 356
Mold Shrinkage	gm.cc	0.005
Cure Time	Minutes @ 150 °C (302 °F)	1 - 2
Molded Density	gm/cc	2.03
Spiral Flow, (EMMI 1-66A)	cm (in)	89 (35)

MOISTURE PROPERTIES	SPECIFICATIONS	DATA
Water Absorption, %	24 hrs @ 23 °C (73 °F)	NA

MECHANICAL PROPERTIES	SPECIFICATIONS	DATA
Flexural Strength	psi kg/cm <sup>2</sup>	14,000 985
Compressive Strength	psi kg/cm <sup>2</sup>	26,000 1,830
Tensile Strength	psi kg/cm <sup>2</sup>	9,000 630

CERTIFICATIONS	SPECIFICATION	DATA
Flammability	UL-94, 1/8 inch	V-0

ELECTRICAL PROPERTIES	SPECIFICATIONS	DATA
Arc Resistance	seconds	NA
Dissipation Factor	60 Hz 10 KHz 1MHz	0.004 0.012 0.013
Dielectric Constant	60 Hz 10 KHz 1MHz	4.4 4.3 4.2
Dielectric Strength, (short time, 125 mils)	volts/mil	300
Volume Resistivity	ohm-cm, x 10 <sup>15</sup>	1.8

THERMAL PROPERTIES	SPECIFICATIONS	DATA
Glass Transition Temperature (T <sub>g</sub> )	°C (°F)	169 (320)
Linear Thermal Expansion, Alpha 1	cm/cm/°C, x 10 <sup>-6</sup>	39
Linear Thermal Expansion, Alpha 2	cm/cm/°C, x 10 <sup>-4</sup>	30
Thermal Conductivity	cal/cm-sec-°C, x10 <sup>-4</sup>	30
Heat Distortion Temperature	°C (18.6 kg/cm <sup>2</sup> ) °F (264 psi)	NA NA
Hot Plate Cure Time	@ 150 °C (302 °F), seconds	25

STORAGE INFORMATION	SPECIFICATIONS	DATA
Recommended Storage Temperature	°C (°F)	4 (40)
Storage Life	5 °C (40 °F), months	6

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Technical Data Sheets are offered for Reference Only, and are not to be considered as specifications. All tests were performed at room temperature (22 °C) unless otherwise stated, under carefully controlled conditions using transfer molded specimens. Since actual performance is determined by the molding techniques applied, as well as part size and shape, it is recommended that customers conduct their own tests to determine product suitability for their specific application. **Cosmic Plastics, Inc. makes no warranties of merchantability, or any expressed or implied guarantee or representation of fitness or suitability for any application.**