



Cosmic Plastics Inc
HELPING MOLD THE FUTURE



Registered To ISO 9001:2008
Ref. No. 10000711

TECHNICAL DATA SHEET

FARBOSET® 2461

DESCRIPTION Cosmic FARBOSET 2461 is a mineral-filled novolac epoxy molding compound featuring fast cure rates, superb moldability and excellent thermal shock and moisture resistance.

APPLICATIONS 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, resistor networks and inductor coils.

MATERIAL INFORMATION & PROPERTIES

MOLDING INFORMATION	SPECIFICATIONS	DATA
Bulk Density (powder)	gm/cc	0.90
Molding Pressure	kg/cm ² psi	14 – 70 200 – 1,000
Molding Temperature	°C °F	145 – 180 293 – 356
Mold Shrinkage	gm.cc	0.004
Cure Time	Minutes @ 150 °C (302 °F)	1 - 2
Post Cure	Hours @ 150 °C (302 °F)	4
Molded Density	gm/cc	2.08
Spiral Flow, (EMMI 1-66A)	cm (in)	76 (30)

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

MECHANICAL PROPERTIES	SPECIFICATIONS	DATA
Flexural Strength	psi kg/cm ²	12,400 873
Compressive Strength	psi kg/cm ²	34,200 2,400
Tensile Strength	psi kg/cm ²	8,200 580

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

ELECTRICAL PROPERTIES	SPECIFICATIONS	DATA
Arc Resistance	seconds	194
Dissipation Factor	1 KHz	0.012
Dielectric Constant	1 KHz	5.12
Dielectric Strength, (1/4 inch section)	volts/mil	387
Volume Resistivity	ohm-cm, x 10 ¹⁵	2.2
Surface Resistivity	ohm-cm, x 10 ¹⁵	>1.5

THERMAL PROPERTIES	SPECIFICATIONS	DATA
Glass Transition Temperature (Tg)	°C (°F)	163 (325)
Linear Thermal Expansion, Alpha 1	cm/cm/°C, x 10 ⁻⁶	27
Linear Thermal Expansion, Alpha 2	cm/cm/°C, x 10 ⁻⁶	60
Thermal Conductivity	cal/cm-sec-°C, x10 ⁻⁴	23
Heat Distortion Temperature	°C (18.6 kg/cm ²) °F (264 psi)	NA NA
Hot Plate Cure Time	@ 150 °C (302 °F), seconds	NA

STORAGE INFORMATION	SPECIFICATIONS	DATA
Recommended Storage Temperature	°C (°F)	5 (40)
Storage Life	5 °C (40 °F), months	12
	25 °C (77 °F), weeks	1
	35 °C (95 °F), days	2

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Approved: SC, 2/1/17

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.