



**Cosmic Plastics Inc**  
HELPING MOLD THE FUTURE



Registered To ISO 9001:2008  
Ref. No. 10000711

## TECHNICAL DATA SHEET

**FARBOSET® 9146**

**DESCRIPTION** Cosmic FARBOSET 9146 is a nonanhydride, dielectric grade epoxy powder coating featuring superior electrical and moisture resistance.

**APPLICATIONS** This compound is designed for encapsulation of hybrids, mica capacitors and other semi conductor grade devices requiring very high purity and optimum moisture performance. It is an ideal candidate for chip on board applications due to its excellent adhesion characteristics.

### MATERIAL INFORMATION & PROPERTIES

POWDER INFORMATION	SPECIFICATIONS	DATA
Particle Size (U.S. Mesh, %)	+80 max -325	1 30 +/- 3
Application and Cure Range	°C °F	125 – 175 257 – 347
Cure Time (minutes)	125 °C (257 °F) 150 °C (302 °F)	60 30
Edge Coverage %	ASTM D-2967	35
Molded Density	gm/cc	1.41

MOISTURE PROPERTIES	SPECIFICATIONS	DATA
Water Absorption, %	24 hrs @ 23 °C (73 °F)	0.07

STORAGE INFORMATION	SPECIFICATIONS	DATA
Recommended Storage Temperature	°C (°F)	18 (65)
Storage Life <i>(Not more than 40% loss of spiral flow based on original values.)</i>	4 °C (40 °F), months 21 °C (70 °F), months	12 4

ELECTRICAL PROPERTIES	SPECIFICATIONS	DATA
Dissipation Factor (ASTM 150)	1 KHz	0.005
Dielectric Constant (ASTM 150)	1 KHz	3.5
Dielectric Strength, (ASTM 149)	volts/mil	900
Loss Factor (ASTM 150)	1 KHz	0.018

THERMAL PROPERTIES	SPECIFICATIONS	DATA
Glass Transition Temperature (Tg)	°C (°F)	160 (320)
Linear Thermal Expansion	cm/cm/°C, x 10 <sup>-6</sup>	38
Plate Flow, mm	150 °C (302 °F) / 60° angle	35
Hot Plate Gel Time	@ 150 °C (302 °F), seconds	45

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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.**