



Cosmic Plastics Inc
HELPING MOLD THE FUTURE



Registered To ISO 9001:2008
Ref. No. 10000711

TECHNICAL DATA SHEET

FARBOSET® 9081

DESCRIPTION Cosmic FARBOSET 9081 is a nonanhydride, epoxy powder coating designed for low temperature applications for heat sensitive electronic components.

APPLICATIONS This compound is designed ideally suited for film and ceramic capacitors which need to be processed in low temperatures. It can be applied using fluidized bed, wheel coaters, or electrostatic spray techniques.

MATERIAL INFORMATION & PROPERTIES

POWDER INFORMATION	SPECIFICATIONS	DATA
Particle Size (U.S. Mesh, %)	+80 max -325	1 30 +/- 3
Edge Coverage %	ASTM D-2967	30
Cure Time (minutes)	110 °C (230 °F) 150 °C (302 °F)	60 10
Molded Density	gm/cc	1.6

ELECTRICAL PROPERTIES	SPECIFICATIONS	DATA
Dissipation Factor (ASTM 150)	1 KHz	0.006
Dielectric Constant (ASTM 150)	1 KHz	4.0
Dielectric Strength, (ASTM 149)	volts/mil	900
Loss Factor (ASTM 150)	1 KHz	0.014

MOISTURE PROPERTIES	SPECIFICATIONS	DATA
Water Absorption, %	24 hrs @ 23 °C (73 °F)	0.1

THERMAL PROPERTIES	SPECIFICATIONS	DATA
Glass Transition Temperature (Tg)	°C (°F)	110 (230)
Linear Thermal Expansion	cm/cm/°C, x 10 ⁻⁶	50
Plate Flow, mm	150 °C (302 °F) / 60° angle	23
Hot Plate Gel Time	@ 150 °C (302 °F), seconds	35

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

APPLICATION DATA

This powder is designed for application and cure at temperatures between 125 °C to 175 °C, (257 °F to 347 °F).

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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.**