



Cosmic Plastics Inc
HELPING MOLD THE FUTURE



Registered To ISO 9001:2008
Ref. No. 10000711

TECHNICAL DATA SHEET

C102 Epoxy

- DESCRIPTION** Cosmic C102 is a copper-filled molding compound which is supplied in a very fine, granular form.
- FEATURES** This material flows easily and provides good moldability.
- APPLICATIONS** This material can be injection, compression or transfer molded to fabricate parts requiring high strength and excellent conductivity.

MATERIAL INFORMATION & PROPERTIES

MOLDING INFORMATION	SPECIFICATION	DATA
Specific Gravity		4.98
Molding Pressure	psi	500 – 1,000
Molding Temperature	°C °F	138 – 177 280 - 350
Molding Barrel Temperature	°C °F	52 – 71 125 - 160
Mold Shrinkage	in / in	0.0005 – 0.0015
Spiral Range	Inches (EMMI)	10 - 30
Recommended Post Cure	Hours @ 320 °F	2-4

ELECTRICAL PROPERTIES	SPECIFICATION	DATA
Electrical Conductivity	G (mS)	50 - 400

THERMAL PROPERTIES	SPECIFICATION	DATA
Thermal Conductivity	W/mK	1.5

TEST CONDITIONS	SPECIFICATION	DATA
Frequency	MHz	1
Volts	Volt	1

STORAGE	SPECIFICATION	DATA
Storage Life	5 °C (41 °F), months	6

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.**

Approved: SC, 2/24/17

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