Cosmic Plastics Inc
HELPING MOLD THE FUTURE

Registered To ISO 9001:2015
Ref. No. 10000711

TECHNICAL DATA SHEET

EH51 Epoxy

DESCRIPTION Cosmic EH51 is an iron-filled epoxy molding compound which is supplied in a black granular form.

FEATURES This material flows easily under low pressure and provides good moldability.

APPLICATIONS This material is good for EMI / RFI shielding, and can be either compression or transfer molded to fabricate core rods, or to encapsulate surface mount and axial leaded inductors. This single molded compound eliminates the labor intensive over/under molding.

MATERIAL INFORMATION & PROPERTIES

MOLDING INFORMATION	SPECIFICATION	DATA
Specific Gravity		2.9
Bulk Factor		2.5
Molding Pressure	psi	50 – 800
Molding Temperature	°C °F	130 – 180 266 - 350
Spiral Range	Inches (EMMI)	30 - 45
Recommended Post Cure	Hours @ 160 °C	2 - 4

STORAGE	SPECIFICATION	DATA
Storage Life	5 °C (40 °F), months	6

ELECTRICAL PROPERTIES	SPECIFICATION	DATA
Inductance	Ls (µH)	0.20 – 0.26
Quality Factor		3.8 – 4.8

TEST CONDITIONS	SPECIFICATION	DATA
Frequency	MHz	1
Specimen	Rod, inches	1/16
Wire Size	Inches	.008
No. of Turns		25

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, 2/9/17

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