

# Cosmic Epoxy EH51

Epoxy; Epoxide  
Cosmic Plastics, Inc.

Message:

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

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

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

General Information	
Filler / Reinforcement	Iron
Features	Electromagnetic shielding (EMI)
	Good formability
	Good liquidity
	Radio frequency shielding (RFI)
Appearance	Black
Forms	Particles
Processing Method	Enclosure
	Resin transfer molding
	Compression molding

Physical	Nominal Value	Unit
Specific Gravity	2.89	g/cm <sup>3</sup>
Bulk Factor	2.5	
Spiral Flow	30.0 - 45.0	

Thermoset	Nominal Value	Unit
Shelf Life (5°C)	17	wk
Post Cure Time (160°C)	2.0 - 4.0	hr

Additional Information	
Inductance Ls (μH) : 0.20 - 0.26Quality Factor : 3.8 - 4.8	

Injection	Nominal Value	Unit
Processing (Melt) Temp	130 - 180	°C
Injection Pressure	0.345 - 5.52	MPa

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Recommended distributors for this material

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