

# Epoxies, Ect. 50-3151 NC FR

Epoxy; Epoxide

Epoxies, Etc.

## Message:

50-3151 NC FR has been formulated to meet the stringent non-burning requirements of UL 94 V-0. This system offers excellent heat transfer, low shrinkage, and outstanding insulation properties. 50-3151 NC FR is low in viscosity and therefore offers outstanding flow around components. Typical applications for 50-3151 NC FR include encapsulating power supplies, transformers, coils, insulators, sensors, etc... This system is an excellent choice for applications requiring high thermal conductivity, flame retardancy, and low viscosity.

General Information		
Features	Flame Retardant	
	High Flow	
	Low Shrinkage	
	Low Viscosity	
	Thermally Conductive	
Uses	Insulation	
Appearance	Black	
Processing Method	Encapsulating	
Physical	Nominal Value	Unit
Molding Shrinkage - Flow	0.20	%
Thermal	Nominal Value	Unit
CLTE - Flow	1.4E-5	cm/cm/°C
Thermal Conductivity	1.3	W/m/K
Additional Information	Nominal Value	Unit
Operating Temperature	-65.0 to 190	°C
Uncured Properties	Nominal Value	Unit
Color	Black	
Density (25°C)	1.70	g/cm³
Viscosity <sup>1</sup> (25°C)	13	Pa·s
Cured Properties	Nominal Value	Unit
Shore Hardness (Shore D)	90	
Tensile Strength	67.9	MPa
Compression Strength	103	MPa
Electric Strength	19	kV/mm
Relative Permittivity (60 Hz)	5.60	
Volume Resistivity (25°C)	1.5E+15	ohms·cm
Dissipation Factor (60 Hz)	0.015	
NOTE		

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