

Epoxies, Ect. 50-3170

Epoxy; Epoxide
Epoxies, Etc.

Message:

50-3170 is a high performance, thermally conductive epoxy rubber formulation designed for those applications requiring excellent electrical insulation and low stress during cure.

50-3170 can be used for bonding sensitive components or for potting of power supplies, coils, glass diodes, and other delicate assemblies. This new formulation can be used successfully for transformers, regulators, PCB's, etc...

50-3170 is an ideal resin system for encapsulation of electronic packages with low stress requirements. The resin has a rubber consistency and retains its properties and flexibility on long term aging. This allows pottings and castings to be probed for detection of electrical failure.

50-3170 is a repairable system. After defective components have been located, the probe path can be totally sealed by applying fresh resin with a hypodermic syringe. 50-3170 will bond to itself forming a totally sealed system.

General Information		
Features	Bondability	
	Electrically Insulating	
	Good Flexibility	
	Thermally Conductive	
Uses	Bonding	
	Electrical Parts	
	Electrical/Electronic Applications	
Processing Method	Encapsulating	
	Potting	
Thermal	Nominal Value	Unit
Thermal Conductivity	1.7	W/m/K
Thermoset	Nominal Value	Unit
Thermoset Mix Viscosity (25°C)	15000	cP
Additional Information	Nominal Value	Unit
Operating Temperature	-70.0 to 150	°C
Uncured Properties	Nominal Value	Unit
Mix Ratio by Weight (PBW)		
Part A	100	
Part B	4.0	
Density (25°C)	1.90	g/cm ³
Curing Time		
66°C	2.0 to 4.0	hr
23°C	24	hr
Gel Time	1.4E+3	min
Cured Properties	Nominal Value	Unit

Shore Hardness (Shore A)	90	
Tensile Elongation at Break	24	%
Electric Strength	19	kV/mm
Relative Permittivity (60 Hz)	3.40	
Volume Resistivity	1.5E+14	ohms·cm
Dissipation Factor (60 Hz)	0.20	

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