



50-3170 RESIN

DESCRIPTION:

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.

TYPICAL SPECIFICATIONS:

Mix Viscosity @ 25°C cps	15,000
Pot Life, 100 gram mass @ 25°C	3.00 Hrs.
Specific Gravity, 25°C	1.90
Hardness, Shore A	90
Gel time	24 Hrs.
Elongation at failure, %	24.0
Operating Temp. Range, °C	-70 to +150
Dielectric Strength, V/mil	480
Dielectric Constant at 60 Hz	3.4
Volume Resistivity, ohm cm at 25°C	1.5×10^{14}
Dissipation Factor, 60 Hz	.2
Thermal Conductivity, W/m- °K	1.73

INSTRUCTIONS FOR USE:

1. Mix 4 parts 50-3170 catalyst to 100 parts 50-3170 resin by weight.
2. Cure at room temperature 24 hours or for 2-4 hours at 150°F.

IMPORTANT:

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