

50-3116 THERMALLY CONDUCTIVE FLEXIBLE EPOXY RESIN

DESCRIPTION:

50-3116 thermally conductive flexible epoxy formulation is designed for applications that require low stress during cure and electrical insulation.

50-3116 is a low viscosity system that is most commonly used for potting and encapsulating power supplies, transformers, regulators, motors, capacitors, batteries, coils etc. This system is excellent in applications that require a compound to remain flexible for long term aging. This system has a low peak exotherm, making it ideal for large castings.

The 50-3116 resin and catalyst are sold in convenient quart kits, gallon kits, 5-gallon pails, and 55-gallon drums. This system is also available in premixed and frozen syringes.

TYPICAL PROPERTIES:

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Viscosity, 25°C, cps	
Resin	13,100
Catalyst	400
Mixed	10,200
Mix Ratio (Resin:Catalyst)	
By Weight	200:5.4
Color	Black
Hardness, Shore A	80
Operating Temperature Range, °C	-70 to +150
Pot Life, 100 grams, 25°C	3 hours
Specific Gravity, 25°C	1.54
Dielectric Strength, V/mil	480
Dielectric Constant, 60 Hz	3.8
Volume Resistivity, 25°C, ohm-cm	1.5 x 10 ¹⁵
Dissipation Factor, 60 Hz	0.15
Thermal Conductivity, W/m-K	1.01

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INSTRUCTIONS FOR USE:

- 1. Agitate 50-3116 resin thoroughly to re-disperse fillers. Some settling during transit or storage is common.
- 2. Mix 100 parts 50-3116 Resin to 5.4 parts 50-3116 Catalyst by weight.
- 3. Follow one of the cure schedules below:

a) 25°C 24 hours b) 65°C 2-4 hours

STORAGE, HANDLING, & SAFETY:

Store both components at 25 $^{\circ}$ C in original containers. The expected shelf life is 12 months in original containers.

Please read the Safety Data Sheet before using this or any other chemical.

AVAILABILITY:

50-3116 is available in 4oz, 16oz, quart, and 1 gallon containers.

IMPORTANT:

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