

50-3120

SINGLE COMPONENT THERMALLY CONDUCTIVE EPOXY

DESCRIPTION:

50-3120 is a filled, single component, thermally conductive, electrically insulating epoxy system. This material is thixotropic and designed for the placement of SMD's on printed circuit boards or other substrates prior to wave soldering. It may also be used in heat sink applications.

50-3120 has a soft, very smooth consistency and will therefore not "run" once applied. It is easily dispensed through fine gauge needles.

TYPICAL SPECIFICATIONS:

Viscosity, cps, 25 °C	Soft Creamy Paste
Hardness, Shore D	80
Operating Temperature Range, ° C	
Continuous	165
Intermittent	300-400
Pot Life, 100 gram mass, 25°C	Single Component
Shelf Life	
25°C	6 Months
0°C	12 Months
Specific Gravity, 25 °C	1.85
Lap Shear Strength, psi	4,000
Tensile Strength, psi	7,500
Volume Resistivity, ohm-cm	1.0 x 10 ¹⁴
Thermal Conductivity, W/m·°K	1.15

INSTRUCTIONS FOR USE:

Cure according to one of the following recommended cure schedules:

- | | |
|-----------|------------|
| a) 100 °C | 15 Minutes |
| b) 150 °C | 5 Minutes |
| c) 175 °C | 2 Minutes |

**PREPARATION OF SURFACES:**

Surfaces to be bonded must be clean and grease free. Adhesion can be substantially increased by abrading the surface with a material like emery cloth or sandpaper. A roughened porous surface will produce the best results. Any oxidized metal films should be removed just prior to application of the adhesives.

STORAGE & HANDLING

The shelf life at 25°C is 6 months in original unopened containers.

The expected shelf life at 0 °C is 1 year.

We recommend refrigerating these adhesives during storage. Extreme warm temperatures during shipping may reduce shelf life. Dry ice or refrigerated shipping is optional and may be requested at the time of order.

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

AVAILABILITY:

50-3120 is available in a variety of syringe sizes and styles. It is also available in quarts, gallons, and 5 gallon pails.

IMPORTANT:

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