



50-3122

ONE COMPONENT THERMALLY CONDUCTIVE & ELECTRICALLY INSULATING EPOXY ADHESIVE

DESCRIPTION:

50-3122 is a one component (no mixing is necessary) epoxy adhesive with a unique combination of physical properties. This adhesive provides both high shear and high peel strengths. It is also able to maintain exceptionally strong bonds over a wide temperature range of -60 to +205°C. 50-3122 is formulated to offer superior resistance to impact, thermal shock, vibration and stress fatigue cracking. This product does not contain solvents and is therefore a 100% solids system.

50-3122 is both a thermally conductive and electrically insulating epoxy adhesive. It is suitable for electronic, electrical, aerospace, appliance, automotive and industrial applications. 50-3122 meets the requirements of MIL-A-47280 (MI) Type 1 specifications.

FEATURES:

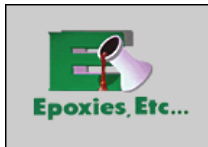
- High Thermal Conductivity
- Electrically Insulating
- Good Chemical Resistance
- Superior Impact & Thermal Shock Resistance
- One Component; No Mixing Required

TYPICAL SPECIFICATIONS:

| | |
|----------------------------------|------------------|
| Viscosity, @25°C | 165,000 |
| Color | Gray |
| Solids Content, % | 100 |
| Specific Gravity, @25°C | 1.82 |
| Hardness, Shore D | 90 |
| Operating Temperature, °C | -60 to +205 |
| Tensile Strength, psi | 9,500 |
| Tensile Modulus, psi | 675,000 |
| Tensile Lap Shear, psi | 2,100 |
| T-Peel, AL to AI, pli | 30 |
| Compressive Strength, psi | 16,000 |
| Volume Resistivity, ohm-cm, 25°C | 10 ¹³ |

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Epoxy, Urethane & Silicone Formulations

| | |
|---|-----|
| Dielectric Strength, volts/mil | 370 |
| Thermal Conductivity, BTU.in/ft ² /hr°F. | 10 |

CURE SCHEDULE:

| | | |
|-------|--------|------------|
| 100°C | (212F) | 2 Hours |
| 125°C | (257F) | 1 Hours |
| 160°C | (320F) | 10 Minutes |
| 175°C | (347F) | 5 Minutes |

SHELF LIFE:

The shelf life at 25°C is 3 months in original unopened containers. The expected shelf life at 0°C is 1 year. We recommend refrigerating these adhesives during storage.

AVAILABILITY:

50-3122R is available in syringes, quarts, gallons and five-gallon pails.

IMPORTANT:

The information in this brochure is based on data obtained by our own research and is considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data, the results to be obtained from the use thereof, or that any such use will not infringe any patent. This information is furnished upon the condition that the person receiving it shall make his own tests to determine the suitability thereof for his particular purpose.

09/08

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