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PRIMA-SOLDER
ME8155

Stress Free
100% Solid
Reworkable
Electrically Conductive
Epoxy Paste Adhesive

IDEAL FOR:

Large Area Die
 Automated Assembly
 Reworkability
 Mismatched CTE's

DESCRIPTION:

ME8155 is a silver filled paste, reworkable, solvent free, and electrically and thermally conductive. It exhibits outstanding flexibility for bonding materials having highly mismatched CTE's (i.e., alumina to aluminum, silicon to copper).

This paste can be used for screen printing and it can be readily reworked at 80-100°C.

TYPICAL PROPERTIES*

| | |
|---|--|
| Electrical Resistivity (150 °C/ 60 minute) | <4x10 ⁻⁴ ohm-cm |
| Dielectric Strength (Volts/mil) | N/A |
| Glass Transition Temp.(°C) | -20 ±10% |
| Current Carrying Capabilities | 35 Amp/mm ² |
| Lap-Shear Strength | >1000 psi >6.9 N/mm ² |
| Device Push-off Strength | >2000 psi >13.8 N/mm ² |
| Hardness (Type) | 80 (A) ±10% |
| Cured Density (gm/cc) | 3.5 ±10% |
| Thermal Conductivity | 55 Btu-in/hr-ft ² -°F ±10% 7.9 W/m-°C ±10% |
| Linear Thermal Expansion Coeff. (ppm/°C) | 120 ±15% |
| Maximum Continuous Operation Temp. (°C) | <150 |
| Avg. Viscosity(0.5 rpm, 25°C) (Brookfield DV-1,spindle CP51) | 354,000 cp ±20% |

* Properties given are typical values and not intended for use in preparing specifications. The user is advised to evaluate the product in the manner the product is intended to be used in manufacturing and in the final product.

AVAILABILITY:

ME8155 is available in syringes for automatic needle dispense applications or in jars.

APPLICATION PROCEDURES:

- (1) Thaw for 30 minutes before opening jar.
- (2) Dispense adhesive onto clean substrate.
- (3) Cure according to one of the recommended schedules.

CURE SCHEDULES:

| Temperature | Time | Pressure |
|-------------|--------|----------|
| 80°C | 8 hr | |
| 100°C | 4 hr | |
| 125°C | 2 hr | |
| 150°C | 1 hr | |
| 175°C | 30 min | |

SHELF LIFE:

| Storage temperature | Shelf Life |
|---------------------|------------|
| -40°C | 1 yr |
| 0°C | 3 mo |

CAUTION: This product may cause skin irritation. Avoid skin contact. If contact does occur, wash immediately with soap and water. Please refer SDS for more details. The information contained herein is believed to be reliable. All recommendations or suggestions are made without guarantee inasmuch as conditions and methods of commercial use are beyond our control. Properties given are typical values and not intended for use in preparing specifications. The user is advised to evaluate the product in the manner the product is to be used in manufacturing and in the final product. Under no circumstance shall AI Technology be liable for accidental, consequential or other damages arising from the use or handling of this product.

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