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PRIMA-BOND
ME8512

High Strength
Solvent Free
Electrically Conductive
Epoxy Paste Adhesive

IDEAL FOR:

- No Bleeding
- Conventional Die Attach
- Automated Assembly
- High Thixotropic Requirements
- LED Die-Attach

DESCRIPTION:

ME8512 is designed for automated, inline processing. This single component, silver filled paste is solvent free, electrically and thermally conductive. It is highly thixotropic with minimal sag.

ME8512 has been designed to eliminate bleeding on both silver plated copper and alloy 42 leadframes.

AVAILABILITY:

ME8512 is available in syringes for automatic needle dispense applications or in jars.

APPLICATION PROCEDURES:

- (1) Thaw sealed for 30 min.before using jar or syringes.
- (2) Dispense adhesive onto clean substrate with a suitable pattern to assure full die coverage.
- (3) Cure according to the recommended cure schedules.

TYPICAL PROPERTIES*

Electrical Resistivity (150 °C/ 60 min)	<4x10 ⁻⁴ ohm-cm
Dielectric Strength (Volts/mil)	>Not Applicable
Glass Transition Temp.(°C)	52 ±10%
Current Carrying Capabilities	50 Amp/mm ² ±10%
Lap-Shear Strength	>1200 psi >8.3 N/mm ²
Device Push-off Strength	>2400 psi >16.6 N/mm ²
Hardness (Type)	Not Available ±10%
Cured Density (gm/cc)	3.8 ±10%
Thermal Conductivity	55 Btu-in/hr-ft ² -°F ±10% 7.9 W/m-°C ±10%
Linear Thermal Expansion Coeff. (ppm/°C)	40 ±15%
Maximum Continuous Operation Temp. (°C)	<150
Avg. Viscosity(5 rpm, 25°C) (Brookfield DV-1,spindle CP51)	15,000 cps (TI=3-5) ±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.

CURE SCHEDULES:

<u>Temperature</u>	<u>Time</u>	<u>Pressure</u>
100°C	4 hr	
125°C	2 hr	
150°C	1 hr	

Electrical conductivity improves with longer cure time.

SHELF LIFE:

<u>Storage temperature</u>	<u>Shelf Life</u>
-40°C	1 yr

Pot Life 5 days @ 25°C

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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