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PRIMA-SOLDER
ME8456-00

Stress Free
Reworkable
Electrically Conductive
Epoxy Paste Adhesive

IDEAL FOR:

Large Area Die
 Substrate and Component
 Reworkability
 Mismatched CTE's

DESCRIPTION:

ME8456-00 is a reworkable, pure silver filled, electrically and thermally conductive epoxy paste adhesive. It exhibits outstanding flexibility for bonding materials having highly mismatched CTE's (i.e., alumina to aluminum, silicon to copper).

ME8456-00 can be readily reworked at 125°C or higher. It is ideal for applications such as large area die attach and substrate attach because of its ability to bond materials having highly mismatched CTE's.

AVAILABILITY:

ME8456-00 is available in syringes for automatic needle dispense applications or in jars.

APPLICATION PROCEDURES:

- (1) Thaw for 30 minutes before opening jar or using syringe.
- (2) Dispense adhesive onto clean substrate.
- (3) Pre-bake dispensed adhesive closed face at 60°C for 60 minutes .
- (4) Cure according to one of the recommended cure schedules.

TYPICAL PROPERTIES*

Electrical Resistivity (125 °C/ 3 hr)	<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	>200 psi >1.4 N/mm ²
Device Push-off Strength	>1200 psi >8.3 N/mm ²
Hardness (Type)	80 (A) ±10%
Cured Density (gm/cc)	4.0 ±10%
Thermal Conductivity	87 Btu-in/hr-ft ² -°F ±10% 12.5 W/m-°C ±10%
Linear Thermal Expansion Coeff. (ppm/°C)	120 ±15%
Maximum Continuous Operation Temp. (°C)	<150
Avg. Viscosity(2.5 rpm, 25°C) (Brookfield DV-1,Spindle CP51)	60,000 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.

CURE SCHEDULES:

<u>Temperature</u>	<u>Time</u>	<u>Pressure</u>
80°C	12 hr	
100°C	6 hr	
125°C	3 hr	
150°C	2 hr	

Pot Life is 5 days at 25°C

SHELF LIFE:

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

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
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