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PRIMA-SOLDER
ME8452

Stress Free
100% Solid
Reworkable
Electrically Conductive
Epoxy Paste Adhesive

IDEAL FOR:

Large Area Die
 Substrate and Component
 Reworkability
 Mismatched CTE's

DESCRIPTION:

ME8452 is a reworkable, solvent free, 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).

It can be readily reworked from 80°C to 100°C. It is ideal for applications such as large area die attach and substrate attach because of its ability to bond materials with highly mismatched CTE.

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	>1800 psi >12.4 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, 24°C) (Brookfield DV-1,spindle CP51)	210,000 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:

ME8452 is available in syringes for automatic needle dispense applications or in jars. Both viscosity and thixotropic index can be modified to your specific needs.

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:

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

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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