

AI TECHNOLOGY INC 70 Washington Road

Princeton Jct., NJ 08550 (609) 799-9388 fax (609) 799-9308

E-Mail: ait@aitechnology.com Internet: http://www.aitechnology.com

Stress Free 100% Solid Flexible, Reworkable Electrically Conductive Epoxy Paste Adhesive

IDEAL FOR:

Large Area Die Automated Assembly Reworkabililty Mismatched CTE's

DESCRIPTION:

ME8155-M is a version of ME8155 modified to provide extra flexibility while maintaining all electrical and bond strength. It is a reworkable, solvent free, silver filled paste that is 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.

AVAILABILITY:

ME8155-M 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.

PRIMA-SOLDER ME8155-M

TYPICAL PROPERTIES*

Electrical Resistivity <4x10⁻⁴ ohm-cm (150 °C/ 60 minute)

Dielectric Strength (Volts/mil)

Glass Transition Temp.(°C)

Current Carrying Capabilities

Lap-Shear Strength

N/A

-20 ±10%

35 Amp/mm²
>1000 psi

>6.9 N/mm²

Device Push-off Strength >1500 psi

>10.4 N/mm²

Hardness (Type) 90 (A) $\pm 10\%$ Cured Density (gm/cc) 4.0 $\pm 10\%$

Thermal Conductivity 55 Btu-in/hr-ft²-°F ±10%

7.9 W/m-°C ±10%

Linear Thermal Expansion 120 ±15%

Coeff. (ppm/°C)

Maximum Continuous Operation Temp. (°C) <150

Avg. Viscosity(5 rpm, 25°C) 80,000 cp ±20%

(Brookfield DV-1,spindle CP51)

3.8

CURE SCHEDULES:

<u>Temperature</u>	<u>Time</u>	<u>Presure</u>
80°C	16 hr	
100°C	8 hr	
125°C	4 hr	
150°C	2 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

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PRODUCT DATA SHEET Ver 2.0 4/2/2018

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