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INLINE DIE-ATTACH
ME8650-RC

Flexible

Moisture Resistant

High Green Strength

100% Solid

Epoxy Paste Adhesive

IDEAL FOR:

"Low" Bleeding

Large Area Die Attach

High Temperature Wirebondable

Component Attach

Substate Attach

DESCRIPTION:

ME8650-RC is designed for needle dispensing and screen-printing processing. This silver filled conductive die-attach adhesive can be rapidly cured at low temperatures. This single component, silver filled paste is ambient storable electrically and thermally conductive. It is highly thixotropic with minimal sag.

ME8650-RC has been designed to minimize bleeding on both silver plated copper and alloy 42 leadframes. Maintains more than 100 psi bond strength at 250°C for wire-bonding.

AVAILABILITY:

ME8650-RC is available in syringes or in jars.

TYPICAL PROPERTIES*

Electrical Resistivity (150 °C/ 5 minutes)	<3x10 ⁻⁴ ohm-cm
Dielectric Strength (Volts/mil)	Not Applicable
Glass Transition Temp.(°C)	-20/-50 Minor
Current Carrying Capabilities	50 Amp/mm ²
Lap-Shear Strength	
Device Push-off Strength	>1000 psi >6.9 N/mm ²
Hardness (Type)	80 (A)
Cured Density (gm/cc)	3.5
Thermal Conductivity	>55 Btu-in/hr-ft ² -°F >7.9 W/m-°C
Linear Thermal Expansion Coeff. (ppm/°C)	100
Maximum Continuous Operation Temp. (°C)	150
Avg. Viscosity(5.0 rpm, 24°C) (Brookfield DV-1,spindle CP51)	15,000 cp

* 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>
125°C	30 min
150°C	15 min
175°C	8 min

Pot life: 25°C for 30 days.

APPLICATION PROCEDURES:

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

SHELF LIFE:

<u>Storage temperature</u>	<u>Shelf Life</u>
-40°C	1 yr
25°C	30 day

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