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DIE ATTACH ADHESIVE
ME8550-DA

Flexible

- Moisture Resistant**
- High Green Strength**
- Electrically Conductive**
- Epoxy Paste Adhesive**

IDEAL FOR:

- "No" Bleeding**
- Large Area Die Attach**
- Screen-Printable**
- Component Attach**
- Substate Attach**

DESCRIPTION:

ME8550-DA 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 and electrically and thermally conductive. It is highly thixotropic with minimal sag.

ME8550-DA has been designed to eliminate bleeding on both silver plated copper and alloy 42 leadframes.

TYPICAL PROPERTIES*

Electrical Resistivity (150 °C/ 5 minutes)	<5x10 ⁻⁴ ohm-cm
Dielectric Strength (Volts/mil)	Not Applicable
Glass Transition Temp.(°C)	-55
Current Carrying Capabilities	50 Amp/mm ²
Lap-Shear Strength	
Device Push-off Strength	1000 psi 6.90 N/mm ²
Hardness (Type)	85 (A)
Cured Density (gm/cc)	3.8
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 rpm, 24°C) (Brookfield DV-1,spindle CP51)	20,000 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.

AVAILABILITY:

ME8550-DA is available in syringes or in jars.

CURE SCHEDULES:

<u>Temperature</u>	<u>Time</u>
85°C	4 hr
100°C	2 hr
125°C	1 hr
150°C	30 min

Pot life: 25°C for 7 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	7 days

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