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Stress Free Reworkable Electrically Conductive Epoxy Paste Adhesive 50 Micron Bondline Control IDEAL FOR: Large Area Die Substrate and Component Reworkability

Mismatched CTE's Controlled 50 Micron Bondline

DESCRIPTION:

ME8456-LV-GS002 is a lower viscosity version of ME8456. It is a reworkable, pure silver filled, electrically and thermally conductive epoxy paste adhesive which contains 2 mil diameter glass beads. It exhibits outstanding flexibility for bonding materials with highly mismatched CTE's (I.e., alumina to aluminum, silicon to copper).

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

AVAILABILITY:

ME8456-LV-GS002 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) Pre-bake dispensed adhesive open-face at 80°C for 30 to 60

minutes to achieve optimum bonding.

(4) Cure using one of the recommended cure schedules.

ME8456-LV-GS002

TYPICAL PROPERTIES*

<4x10 ⁻⁴ ohm-cm
N/A
-20 ±10%
35 Amp/mm²
>1000 psi
>6.9 N/mm²
>2000 psi
>13.8 N/mm²
80 (A) ±10%
3.5 ±10%
55 Btu-in/hr-ft²-ºF ±10%
7.9 W/m-ºC ±10%
100 ±15%
i Temp. (⁰C) <150
50,000-90,000 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:

Time	Pressure
8 hr	
4 hr	
2 hr	
1 hr	
	8 hr 4 hr 2 hr

SHELF LIFE:

Storage temperature -40°C POT LIFE <u>Shelf Life</u> 1 yr 5 Days @ 25°C

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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