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# Lower Viscosity Paste Flexible Epoxy Adhesive Thermally Conductive Stress-Free Bonding 2-Component, Premixed Frozen

## **IDEAL FOR:**

Substrate Attach Heat-Sink Attach Component Attach Large Area Bonding Bonding Adherends with Mismatched CTE's

#### **DESCRIPTION:**

EG7655-LV is a reworkable, alumina filled, electrically insulating, and thermally conductive epoxy paste adhesive. It exhibits outstanding flexibility for bonding materials with highly mismatched CTE's (i.e., alumina to aluminum, silicon to copper). This low viscosity version of EG7655 has high thermal conductivity and flexibility making it excellent for bonding large area substrates, components and heat sinks where thermal management is critical.

EG7655-LV is reworkable at 80-100°C.

## AVAILABILITY:

EG7655-LV is available in syringes for automatic needle dispense applications or in jars. Both viscosity and thixotropic index can be modified to your specific needs. The material can be shipped premixed and frozen upon request.

## **APPLICATION PROCEDURES:**

(1) Store Part A and Part B at ambient.

- (2) Mix A and B 1:1 by weight.
- (3) Cure according to one of the recommended schedules.

# EG7655-LV

#### **TYPICAL PROPERTIES\***

Electrical Resistivity	>1x10 <sup>14</sup> ohm-cm
( 150 ℃/ 60 minutes )	
Dielectric Strength (Volts/mil)	> 750
Glass Transition Temp.(°C)	-25 ±10%
Current Carrying Capabilities	N/A
Lap-Shear Strength	<mark>&gt;1000 psi</mark>
	>6.9 N/mm²
Device Push-off Strength	<mark>&gt;1500 psi</mark>
	>10.3 N/mm²
Cured Density (gm/cc)	2.3 ±10%
Thermal Conductivity	12 Btu-in/hr-ft²-ºF ±10%
	1.7 W/m-ºC ±10%
Linear Thermal Expansion	120
Coeff. (ppm/ºC)	
Maximum Continuous Operation Temp. (°C) <150	
Avg. Viscosity(0.5 rpm, 24°C) (Brookfield DV-1, spindle CP51)	80,000 cp ±20%
* Properties given are typical values and not intended for use in proparing	

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## **CURE SCHEDULES:**

<u>Time</u>
<mark>4 hr</mark>
2 hr
1 hr
30 min

If the material is premixed and frozen thaw for 30 minutes, apply and cure according to one of the recommended schedules.

\*\*Shelf life is for unmixed components. If premixed:-40°C for 6 months. Pot life is 8 hours at 25°C, after mixing.

#### **SHELF LIFE:**

Storage temperature \*\*25°C Shelf Life 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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