



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>

PRIMA-BOND
ME7155-AN

High Thermal Conductivity

- Stress Free**
- Solvent Free**
- Reworkable**
- Epoxy Paste Adhesive**

IDEAL FOR:

- High Power Die Attach**
- Substrate and Component**
- Reworkability**
- Mismatched CTE's**

DESCRIPTION:

ME7155-AN is a reworkable, aluminum nitride filled, electrically insulating and thermally conductive epoxy paste adhesive which exhibits outstanding flexibility for bonding materials having highly mismatched CTE's (i.e., alumina to aluminum, silicon to copper). The high thermal conductivity of this material makes it useful for bonding high-powered, large area die and components.

It can be readily reworked at 80-100°C.

TYPICAL PROPERTIES*

Electrical Resistivity (150 °C/ 60 minute)	>1x10 ¹⁴ ohm-cm
Dielectric Strength (Volts/mil)	>750
Glass Transition Temp.(°C)	-25
Current Carrying Capabilities	N/A
Lap-Shear Strength	1000 psi 6.9 N/mm ²
Device Push-off Strength	1800 psi 12.4 N/mm ²
Hardness (Type)	80 (A)
Cured Density (gm/cc)	2.3
Thermal Conductivity	25 Btu-in/hr-ft ² -°F 3.6 W/m-°C
Linear Thermal Expansion Coeff. (ppm/°C)	120
Maximum Continuous Operation Temp. (°C)	150
Avg. Viscosity(0.5 rpm, 24°C) (Brookfield DV-1,spindle CP51)	245,000 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:

ME7155-AN is available in syringes for automatic needle dispense applications or in jars.

CURE SCHEDULES:

<u>Temperature</u>	<u>Time</u>
80°C	8 hr
100°C	4 hr
125°C	2 hr
150°C	30 min
200°C	10 min

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.

SHELF LIFE:

<u>Storage temperature</u>	<u>Shelf Life</u>
-40°C	1 yr
0°C	3 mo

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