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

ME7630-RC

High Strength
RAPID CURING
100% Solid
Insulating
Epoxy Paste Adhesive

IDEAL FOR:

Rapid curing at elevated temperature
Die-Attach
Automated Assembly

TYPICAL PROPERTIES*

Electrical Resistivity (150ºC/ 8 min)	>1x10^{14} ohm-cm
Dielectric Strength (Volts/mil)	>750
Glass Transition Temp.(ºC)	80 ±10%
Current Carrying Capabilities	
Lap-Shear Strength	>1500 psi
	>10.3 N/mm²
Device Push-off Strength	>3000 psi
	>20.6 N/mm²
Hardness (Type)	80 (D) ±10%
Cured Density (gm/cc)	1.2 ±10%
Thermal Conductivity	1.4 Btu-in/hr-ft²-ºF ±10%
	0.2 W/m-ºC ±10%
Linear Thermal Expansion Coeff. (ppm/ºC)	40 ±15%
Maximum Continuous Operation Temp. (ºC)	<150
Pot Life	2 days
Avg. Viscosity(5 rpm, 25ºC) (Brookfield DV-1,Spindle CP51)	17,000 cp ±20%
Thixotropic Index	

* 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.

DESCRIPTION:

ME7630-RC is a RAPID CURING insulating epoxy adhesive for snap-curing applications. This thixotropic paste is solvent free. (TI is approx. 2). It is designed for automated, inline bonding processing.

ME7630-RC is low in ionic impurities (<80 ppm total) and meets all requirements for MIL-Std 883; Method 5011.5 specification for dielectric adhesive. Fast curing can be achieved from 80ºC and higher temperatures.

AVAILABILITY:

ME7630-RC is available in syringes for automatic needle dispense applications or in jars.

APPLICATION PROCEDURES:

(1) Thaw for 30 minutes 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 one of the recommended cure schedules.

CURE SCHEDULES:

Temperature	Time	Pressure
80ºC	80 min	
125ºC	20 min	
150ºC	10 min	

Pot life is 2 days @ 25ºC

SHELF LIFE:

Storage temperature	Shelf Life
-40ºC	1 yr
25ºC	2 days