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**DIE ATTACH
 ME7863**

Solvent Free

- Low Moisture Absorption**
- Low Ionic Impurities**
- High Temperature Curing**

IDEAL FOR:

- Die Attach**
- High Speed Automated Processing**
- Hermetically Sealed Packages**

DESCRIPTION:

ME7863 is a one part, quartz filled cyanate ester die attach adhesive. It was designed for solder-sealed ceramic packages. It can withstand temperatures up to 350°C without thermal degradation.

ME7863 has processing characteristics required in high speed automation. Its unique chemistry results in very low moisture absorption, high adhesive strength and low CTE.

AVAILABILITY:

ME7863 is available in syringes for automatic dispense applications or in jars.

APPLICATION PROCEDURES:

- (1) Thaw to room temperature 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 schedule, i.e. B-Stage followed by a cure schedule.

TYPICAL PROPERTIES*

Electrical Resistivity (NA °C/)	NA	ohm-cm
Dielectric Strength (Volts/mil)	>750	
Glass Transition Temp.(°C)	240	
Current Carrying Capabilities	NA	
Lap-Shear Strength	>1000 psi >6.9 N/mm ²	
Device Push-off Strength	>2500 psi >17.2 N/mm ²	
Hardness (Type)	95 (D)	
Cured Density (gm/cc)	1.6	
Thermal Conductivity	>6.9 Btu-in/hr-ft ² -°F >1.0 W/m-°C	
Linear Thermal Expansion Coeff. (ppm/°C)	30	
Maximum Continuous Operation Temp. (°C)	300	
Avg. Viscosity(0.5 rpm, 24°C) (Brookfield DV-1,spindle CP51)	7000 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.

CURE SCHEDULES:

<u>Temperature</u>	<u>Time</u>
170°C	10 min (B-Stage)
225°C	30 min

SHELF LIFE:

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

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