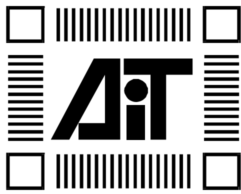

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THERMOPLASTIC FILM

TP7209

Tacky, Non Curing
Pressure Sensitive
High Thermally Conductive
Electrically Insulating
Film Adhesive

IDEAL FOR:

- Component Attach
- Heat Sink Attach
- Substrate Attach

DESCRIPTION:

TP7209 is a low bond strength thermoplastic film adhesive. It is designed for bonding heat-sink, component, and substrate. This unique diamond filled material has excellent thermal conductivity and is tacky at room temperature.

AVAILABILITY:

TP7209 is available in sheet sizes or as custom preforms. Standard thicknesses are 0.004" and 0.006". Special thicknesses are available. TP7209 can be obtained in liquid form (LTP7209). This product is fiber glass reinforced.

APPLICATION PROCEDURES:

(1) Cut or pre-cut to desired size.

(2) Remove one side of release paper from adhesive.

(3) Place on substrate or component with rolling finger pressure, then remove the other release paper.

(4) Place component on substrate with insertion pressure of 15 psi or more.

TYPICAL PROPERTIES*

Property	Value
Electrical Resistivity (25 ºC/1 minute)	>1x10 ^{14} ohm-cm
Dielectric Strength (Volts/mil)	>750
Glass Transition Temp.(ºC)	-55 ±10%
Lap-Shear Strength	>100 psi >0.69 N/mm²
Device Push-off Strength	200 psi ±10% 1.4 N/mm² ±10%
Cured Density (gm/cc)	2.2 ±10%
Hardness (Type)	<40 ±10%
Thermal Conductivity	80 Btu-in/hr-ft²-ºF ±10% 11.4 W/m-ºC ±10%
Linear Thermal Expansion Coeff. (ppm/ºC)	110 ±15%
Tensile Modulus:	
Maximum Continuous Operation Temp. (ºC)	<150

* 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:

Temperature	Time	Pressure
None		15 psi

SHELF LIFE:

Storage temperature	Shelf Life
25ºC	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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