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**THERMOPLASTIC FILM**  
**TP7205**

**Tacky**  
**Pressure Sensitive**  
**Electrically Insulating**  
**Non Curing**  
**Film Adhesive**

**IDEAL FOR:**

- Component Attach
- Heat Sink Attach
- Substrate Attach

**DESCRIPTION:**

TP7205 is an alumina filled, low bond strength thermoplastic film adhesive. It is designed for bonding heat-sink, component, and substrate. TP7205 has good thermal conductivity and is tacky at room temperature.

The adhesive film typically can be used for most applications at temperature from -65 to 150C. Customers must test the adhesive for their specific application(s) to confirm its suitability.

**AVAILABILITY:**

TP7205 is available in sheet sizes or as custom preforms. Standard thicknesses are 0.004" and 0.006". Special thicknesses are available. TP7205 can be obtained in liquid form (LTP7205). This film 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\***

Electrical Resistivity ( 25 °C/1 minute )	>1x10 <sup>14</sup> ohm-cm
Dielectric Strength (Volts/mil)	>750
Glass Transition Temp.(°C)	-55
Lap-Shear Strength	>100 psi >0.69 N/mm <sup>2</sup>
Device Push-off Strength	200 psi 1.4 N/mm <sup>2</sup>
Cured Density (gm/cc)	2.2
Hardness (Type)	<40 (A)
Thermal Conductivity	12 Btu-in/hr-ft <sup>2</sup> -°F 1.7 W/m-°C
Linear Thermal Expansion Coeff. (ppm/°C)	110
Tensile Modulus:	
Maximum Continuous Operation Temp. (°C)	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:**

<u>Temperature</u>	<u>Time</u>	<u>Pressure</u>
None		

**SHELF LIFE:**

<u>Storage temperature</u>	<u>Shelf Life</u>
25°C	1 yr

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