



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>

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.

TYPICAL PROPERTIES*

Electrical Resistivity (25 °C/1 minute)	>1x10 ¹⁴ ohm-cm
Dielectric Strength (Volts/mil)	>750
Glass Transition Temp.(°C)	-55
Lap-Shear Strength	>100 psi >0.69 N/mm ²
Device Push-off Strength	200 psi 1.4 N/mm ²
Cured Density (gm/cc)	2.2
Hardness (Type)	<40 (A)
Thermal Conductivity	12 Btu-in/hr-ft ² -°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		

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.

SHELF LIFE:

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

The information contained herein is believed to be reliable. All recommendations or suggestions are made without guarantee inasmuch as conditions and methods of commercial use are beyond our control. 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 to be used in manufacturing and in the final product. Under no circumstance shall A.I. Technology be liable for accidental, consequential or other damages arising from the use or handling of this product.

While AI Technology owns all proprietary rights of material formulations of its products, specific usage in the manufacturing of certain products may involve patent rights of other companies.