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THERMOPLASTIC FILM
TP7758

**Stress-Free, High
 Thermally Conductive
 Electrically Insulating
 Thermoplastic
 Film Adhesive**

IDEAL FOR:

- High Volume, Automated Assemblies
- Heat Sink
- Component Attach
- Substrate Attach

DESCRIPTION:

TP7758 is an aluminum nitride filled, electrically insulating, medium bond strength thermoplastic film adhesive designed for bonding component and substrate. It has very good thermal conductivity. The dry, tack-free handling of this film makes it suitable for an automated assembly.

This high purity adhesive possesses excellent moisture resistance.

TYPICAL PROPERTIES*

Electrical Resistivity (160 °C/1 minute)	>1x10 ¹⁴ ohm-cm
Dielectric Strength (Volts/mil)	>1000
Glass Transition Temp.(°C)	-70
Lap-Shear Strength	N/A
Device Push-off Strength	900 psi 6.2 N/mm ²
Cured Density (gm/cc)	2.2
Hardness (Type)	Not Available
Thermal Conductivity	25 Btu-in/hr-ft ² -°F 3.6 W/m-°C
Linear Thermal Expansion Coeff. (ppm/°C)	70
Tensile Modulus:	
Maximum Continuous Operation Temp. (°C)	>200

* 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.

REFLOW TEMPERATURES:

<u>Temperature</u>	<u>Time</u>	<u>Pressure</u>
>250°C	0.5-5 sec	5-10 psi

AVAILABILITY:

TP7758 is available in sheet sizes or as custom preforms. Standard thicknesses are 0.003" and 0.006". Special thicknesses are available.

APPLICATION PROCEDURES:

- (1) Cut to desired size.
- (2) Remove film from protective paper.
- (3) Place on substrate and part.
- (4) Apply the pressure and reflow material. Maintain pressure until bond is formed.

SHELF LIFE:

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

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