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**THERMOPLASTIC FILM
 TP8260**

**High Temperature
 Thermoplastic Adhesive
 Electrically Conductive
 Instant Bonding at 290°C & 10 psi
 Ambient Temperature Storable**

IDEAL FOR:

- Die Attach
- Special Lamination
- Substrate Attach
- Component Attach

DESCRIPTION:

TP8260 is a silver filled conductive thermoplastic film adhesive. It is designed for bonding die, component, and substrate for continuous high temperature applications. TP8260 has excellent thermal conductivity. It maintains good bond strength and rigidity for wire-bonding up to 250°C. The dry, tack-free handling of this film makes it suitable for in-line, reel to reel automated assembly.

Because of the relatively high rigidity of the adhesive, it is more suitable for smaller area dies and matched adherends bonding. This high purity adhesive possesses excellent moisture resistance.

AVAILABILITY:

TP8260 is available in reel, sheet sizes or as custom preforms. Standard thicknesses are 0.003" and 0.006". Special thicknesses are available. TP8260 can also be obtained in liquid form (LTP8260).

APPLICATION PROCEDURES:

- (1) Remove film from protective paper.
- (2) Cut to desired size.
- (3) Place on substrate and reflow according to the recommended schedule.

TYPICAL PROPERTIES*

Electrical Resistivity (290 °C/1 second)	<5x10 ⁻⁴ ohm-cm
Dielectric Strength (Volts/mil)	N/A
Glass Transition Temp.(°C)	250
Lap-Shear Strength	
Device Push-off Strength	>1500 psi >10.3 N/mm ²
Cured Density (gm/cc)	3.5
Hardness (Type)	60 (D)
Thermal Conductivity	45 Btu-in/hr-ft ² -°F 6.4 W/m-°C
Linear Thermal Expansion Coeff. (ppm/°C)	55
Tensile Modulus:	
Maximum Continuous Operation Temp. (°C)	250

* 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.

MELT-FLOW CONDITION:

<u>Temperature</u>	<u>Time</u>	<u>Pressure</u>
>290°C	0.5-5 sec	10 psi

SHELF LIFE:

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

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