



Adhesive Films and Preforms

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## TF T3222

### Thermal Conductive Electrically Insulating Adhesive (preliminary)

**Description:**

TechFilm T3222 is a high performance liquid adhesive that is specially formulated for bonding to gold or gold plated substrates. TechFilm T3222 will cure at temperatures above 130°C. It features good chemical, heat, and moisture resistance.

**Applications:**

TechFilm T3222 is a liquid adhesive that is designed for giving high strength bonds to difficult to bond metal surfaces.

**Shelf Life:**

One day @ 20°C      One week @ 10°C      Two months @ -10°C      One year @ -40°C

**Cure Schedules:**

Cure Schedule                      60 minutes at 150°C  
Alternate Cure Schedules        30 minutes at 165°C, or 180 minutes at 130°C

**Uncured Properties**

<u>Property</u>	<u>Method</u>	<u>Value Obtained</u>
Viscosity at 25°C, RV-TD, 1RPM, cP	TFTEST001B	87,000
Viscosity at 25°C, RV-TD, 10RPM, cP	TFTEST001B	39,000
Gel time at 160°C, seconds	TFTEST006	51

**Cured Properties:**

<u>Property</u>	<u>Method</u>	<u>Value Obtained</u>
Color	Visual	Tan
Specific Gravity	ASTMD 792	1.87
Volume Resistivity at 25°C, Ohm-cm	TFTEST004A	>1.0 x 10 <sup>14</sup>
Thermal Conductivity, W/M-°K	Estimate	0.5
Lap Shear Strength to Aluminum at 25°C, psi	ASTMD 1002	3100
Lap Shear Strength to Gold at 25°C, psi	ASTMD 1002	3000
Glass Transition Temperature, °C, 20°C per minute	ASTME 1356	86
Weight Loss at 150°C, TGA, 20°C/min, N <sub>2</sub> , %	ASTMD 3850	0.10
at 200°C	and MIL-STD-883	0.19
at 250°C	Section 3.8.5.1	0.33

All values reported above are typical values from the recommended cure, and are reported as a means of reference. Individual testing should be done to determine actual results, tested at specific conditions.

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