



Adhesive Films and Preforms

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## TECHNICAL DATA

### TF T2122F

### THERMALLY CONDUCTIVE FILM

#### **Description:**

TechFilm T2122F is a high performance thermally conductive B-staged film adhesive specially formulated for bonding to hard to bond substrates.

#### **Advantages and Applications:**

TechFilm T2122F will cure at temperatures above 90°C. It features good chemical, heat, and moisture resistance.

#### **Shelf Life:**

24 hours @ 20°C    Two months @ -10°C    One year @ -40°C

#### **Cure Schedules:**<sup>1</sup>

Cure Schedule	60 minutes at 120°C
Alternate Cure Schedules	20 minutes at 150°C
	10 minutes at 120°C plus 15 min at 150°C
	120 minutes at 100°C
	240 minutes at 90°C

#### **Cured Properties:**

<b>Property</b>	<b>Method</b>	<b>Value Obtained</b>
Color	Visual	Cream
Specific Gravity	TFTEST002B	1.9
Volume Resistivity at 25°C, Ohm-cm	ASTM D257	>1.0 x 10 <sup>12</sup>
Lap Shear Strength to Aluminum at 25°C, psi	ASTM D1002	2525
Lap Shear Strength to 316 SS at 25°C, psi	ASTM D1002*	5900
Lap Shear Strength to 101 Copper at 25°C, psi	ASTM D1002*	4300
Lap Shear Strength to 260 Brass Alloy at 25°C, psi	ASTM D1002*	5300
Lap Shear Strength to Nickel at 25°C, psi	ASTM D1002	2300
Lap Shear Strength to FR4 at 25°C, psi	ASTM D1002*	3300
Lap Shear Strength to PEEK at 25°C, psi	ASTM D1002*	400
Lap Shear Strength to ULTEM at 25°C, psi	ASTM D1002*	1100
Thermal Conductivity W/M-°K, Theoretical	estimate	0.41
Glass Transition Temperature, °C	ASTM E1545	81

\* Performed on 0.25" thick substrate

**Higher performance properties may sometimes be achieved at higher cure temperatures or longer times**

**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. Data should not be used for material specification purposes.**

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