



Adhesive Films and Preforms

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## TF E2771CF3 ELECTRICALLY CONDUCTIVE FILM

### **Description:**

TechFilm E2771CF3 is a three thousandths of an inch film supported with two thousandths of an inch carbon non-woven mesh. It is a high performance electrically conductive B-staged film adhesive specially formulated for bonding to gold, brass and copper substrates.

### **Advantages and Applications:**

TechFilm E2771CF3 will cure at temperatures above 90°C. It features good chemical, heat, and moisture resistance.

### **Shelf Life:**

One week @ 20°C      One month @ 10°C      Three months @ -10°C      One year @ -40°C

### **Cure Schedules:**

Cure Schedule	30 minutes at 150°C	
Alternate Cure Schedules	15 minutes at 165°C	120 minutes at 110°C
	10 minutes at 175°C	180 minutes at 100°C

### **Cured Properties:**

<b><u>Property</u></b>	<b><u>Method</u></b>	<b><u>Value Obtained</u></b>
Color	Visual	Dark Grey
Volume Resistivity at 25°C, Ohm per square, copper to copper	TFTEST004C	2
Tensile Shear Strength to Gold at 25°C, psi	ASTM D1002	1900
Tensile Shear Strength to Aluminum at 25°C, psi	ASTM D1002	2900
Tensile Shear Strength to 3/16" thick 101 Copper at 25°C, psi	ASTM D1002	2950
Glass Transition Temperature (inflection), °C	ASTM E1356	114

**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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