



Adhesive Films and Preforms

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TF T2722F

THERMALLY CONDUCTIVE & ELECTRICALLY INSULATIVE FILM

Description:

TechFilm T2722F is a high performance, thermally conductive and electrically insulative, B-staged film adhesive. It features a relatively low coefficient of thermal expansion moderately high glass transition temperature and good adhesion to various substrates. TechFilm T2722F will cure at temperatures above 90°C.

Shelf Life: (Stored in dry conditions)

7 days @ 20°C Four weeks @ 10°C Six months @ -10°C One year @ -40°C

Cure Schedules:

Cure Schedule 60 minutes at 130°C
 Alternate Cure Schedules 15 minutes at 150°C
 120 minutes at 110°C

Cured Properties:

<u>Property</u>	<u>Method</u>	<u>Value Obtained</u>
Color	Visual	Cream
Thermal Conductivity, W/m-°K	Estimate	0.4
Specific Gravity	ASTMD 790	1.9
Volume Resistivity at 25°C, Ohm-cm	ASTMD 257	>2.0 x 10 ¹⁴
Lap Shear Strength, Aluminum at 25°C, psi	ASTMD 1002	3800
Lap Shear Strength, 101 Copper at 25°C, psi	ASTMD 1002	3250
Weight Loss at 150°C, TGA, 20°C/min, N ₂ , % at 200°C	ASTMD 3850 & MIL-STD-883	0.11 0.48
Dielectric Constant at 25°C, 1 kHz	ASTM D1531/D150	5.3
Dissipation Factor at 25°C, 1 kHz	ASTM D1531/D150	0.013
Dielectric Constant at 25°C, 1 MHz	ASTM D1531/D150	5.0
Dissipation Factor at 25°C, 1 kHz	ASTM D1531/D150	0.06
Glass Transition Temperature, 20°C/min, °C	ASTMD E1356	93

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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