TECHFILM®

Adhesive Films and Preforms

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TF T2736F
THERMALLY CONDUCTIVE ELECTRICALLY INSULATIVE FILM

Description:

TechFilm T2736F is a high performance, electrically insulative, B-staged film adhesive cast from 100% solids. It features a relatively low coefficient of thermal expansion, thermal conductivity, fairly high glass transition temperature and good adhesion to various substrates. It also features good chemical, heat, and moisture resistance. TechFilm T2736F will cure at temperatures above 100°C

Shelf Life: (Stored in dry conditions)

4 days @ 20°C Two weeks @ 10°C Two months @ -10°C One year @ -40°C

Cure Schedules:

Cure Schedule	30 minutes at 120°C
Alternate Cure Schedules	20 minutes at 130°C
	15 minutes at 150°C
	240 minutes at 100°C

Cured Properties:

Property	Method	Value Obtained
Color	Visual	Cream
Thermal Conductivity, W/m-°K	Estimate	0.45
Specific Gravity	ASTMD 790	1.8
Volume Resistivity at 25°C, Ohm-cm	ASTMD 257	$>2.0 \times 10^{14}$
Lap Shear Strength to Aluminum at 25°C, psi	ASTMD 1002	1800
Linear Coefficient of Thermal Expansion, x 10^{-6}/°C		
Alpha 1 (below Tg)	ASTME 831	60
Alpha 2 (above Tg)	ASTME 831	280
Weight Loss at 150°C, TGA, 20°C/min, N_2, %	ASTMD 3850	0.02
at 200°C	and MIL-STD-883	0.02
at 300°C	Section 3.8.5.1	0.22
Glass Transition Temperature, DSC, 20°C/min, °C	ASTMD E1356	124

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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