TECHFILM®

Adhesive Films and Preforms

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TF I2506F
ELECTRICALLY INSULATIVE FILM

Description:

TechFilm I2506F is a high performance, electrically insulative, B-staged film adhesive cast from 100% solids. It features a relatively high flow, high glass transition temperature and good adhesion to various substrates. It also features good chemical, heat, and moisture resistance. TechFilm I2506F will cure at temperatures above 130°C.

Shelf Life: (Stored in dry conditions)

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

Cure Schedules:

Cure Schedule	60 minutes at 150°C
Alternate Cure Schedules	90 minutes at 140°C
	15 minutes at 150°C plus 15 minutes at 180°C
	120 minutes at 130°C

Cured Properties:

Property	**Method**	**Value Obtained**
Color	Visual	Cream
Specific Gravity	ASTMD 790	1.2
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	2020
Linear Coefficient of Thermal Expansion, x 10^{-6}/°C		
Glass Transition Temperature, DSC, 20°C/min, °C	ASTME 1356	121
Weight Loss at 150°C, TGA, 20°C/min, N_2, %	ASTMD 3850	0.47
at 200°C	and MIL-STD-883	0.64
at 300°C	Section 3.8.5.1	1.32

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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