



Adhesive Films and Preforms

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TF I2300F ELECTRICALLY INSULATIVE FILM

Description:

TechFilm I2300F is a high performance B-staged film adhesive developed for higher temperature applications. It features a relatively high flow, a high glass transition temperature. It also features good chemical, heat, and moisture resistance. TechFilm I2300F will cure at temperatures above 160°C.

Shelf Life: (Stored in dry conditions)

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

Cure Schedules:

Cure Schedule 15 minutes at 150°C plus 30 minutes at 200°C
Alternate Cure Schedules 15 minutes at 160°C plus 20 minutes at 200°C
60 minutes at 180°C

Cured Properties:

<u>Property</u>	<u>Method</u>	<u>Value Obtained</u>
Color	Visual	Amber
Specific Gravity	ASTMD 790	2.1
Volume Resistivity at 25°C, Ohm-cm	ASTMD 257	>2.0 x 10 ¹⁵
Lap Shear Strength to Aluminum at 25°C, psi	ASTMD 1002	2400
Lap Shear Strength to Nickel at 25°C, psi	ASTMD 1002	900
Lap Shear Strength to PEEK at 25°C, psi	ASTMD 1002	360
Lap Shear Strength to ULTEM at 25°C, psi	ASTMD 1002	650
Glass Transition Temperature, °C	ASTME 1545	>190
Alpha 1 (below Tg)	ASTME 831	85
Alpha 2 (above Tg)	ASTME 831	290

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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