



Adhesive Films and Preforms

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T2381

Thermally Conductive Film (preliminary)

Description:

TechFilm T2381 is a thermally conductive B-staged film adhesive specially formulated for high temperature applications.

Advantages and Applications:

TechFilm T2381 will cure at temperatures above 180°C. It features good chemical, heat, and moisture resistance and high thermal conductivity.

Shelf Life:

One week @ 20°C Two months @ -20°C One year @ -40°C

Cure Schedules:

Cure Schedule 30 minutes at 150°C plus 30 minutes at 225°C
Alternate Cure Schedules 60 minutes at 180°C

Cured Properties:

<u>Property</u>	<u>Method</u>	<u>Value Obtained</u>
Color	Visual	Grey
Lap Shear Strength to Aluminum at 25°C, psi	ASTM D1002	2000
Glass Transition Temperature (inflection), °C	ASTM E1356	87/205
Weight Loss at 150°C, TGA, 20°C/min, N ₂ , %	ASTM D3850	0.37
at 200°C	and MIL-STD-883	0.39
at 250°C	Section 3.8.5.1	0.41
at 300°C		0.53
Thermal Conductivity, W/M-°K	ASTM E1461	1.2
* - Dual glass transition		

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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