



Adhesive Films and Preforms

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E2551

Electrically Conductive/Thermally Conductive Adhesive Film

Description:

TechFilm E2551 is a high performance electrically conductive, thermally conductive B-staged film adhesive. It features good adhesion to ceramic and metal surfaces. It has relatively low conductivity through a lap shear joint. It has been designed especially for electrically conductive applications where galvanic corrosion may be a problem in adhering to Aluminum, Steel, Zinc, copper, nickel, Bronze and Beryllium substrates.

Shelf Life: (Stored in dry conditions)

1 month @ 20°C 1 year @ -40°C

Cure Schedules:

Cure Schedule 60 minutes at 150°C
 Alternate Cure Schedules 120 minutes at 140°C or 30 minutes at 165°C

Cured Properties:

<u>Property</u>	<u>Method</u>	<u>Value Obtained</u>
Color	Visual	Grey/Green
Glass Transition Temperature, °C	ASTME 1356	130
Lap Shear Strength, Aluminum at 25°C, psi	ASTM D1002	2770
Conductivity through Aluminum Lap shear joint, ohms	Continuity check	< 0.001
Thermal Conductivity, W-M-°K	ASTM E1461	0.55
Thermal diffusivity, thickness = 1.07 mm, cm ² /s-°K	ASTM E1461	0.0024
Specific Heat Capacity, J/g-°K	ASTM E1461	1.85
Weight Loss at 150°C, TGA, 20°C/min, N ₂ atmosphere, %	ASTM D3850	0.02
at 200°C	and MIL-STD-883	0.08
at 250°C	Section 3.8.5.1	0.16
at 300°C		0.36

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.

Rev : 111907 PLC

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