

TF E2313F

ELECTRICALLY CONDUCTIVE FILM

TECHNICAL DATA

October, 2011

Product Description

TechFilm E2313F is a high performance, electrically conductive, B-staged film adhesive developed for higher temperature applications. It features a relatively low coefficient of thermal expansion, a high glass transition temperature and good adhesion to various substrates. It also features good chemical, and thermal degradation resistance. TechFilm E2313F will cure at temperatures above 160°C.

APPLICATIONS

- EMI/RF Shielding
- Ground Planes

FEATURES

- Electrically conductive
- B-staged film
- Chemical, heat, moisture resistant

RECOMMENDED SUBSTRATES

- Aluminum

CURED PROPERTIES*

Property	Value	Test Method
Color	Silver	Visual
Specific Gravity	3.6	ASTM D790
Glass Transition Temperature, C	>180	DMA
Linear Coefficient of Thermal Expansion, $\times 10^{(-6)}/C$	Alpha 1 (below Tg): 55	ASTM E831
	Alpha 2 (above Tg): 340	ASTM E831
Volume Resistivity, 25C, Ohm-cm	2.0×10^{-3}	TFTEST004A
Space Simulated Outgassing, TML	0.19%	ASTM E595
Space Simulated Outgassing, CVCM	0.02%	ASTM E595
Space Simulated Outgassing, WVR	0.134%	ASTM E595

TENSILE STRENGTH

Property	Value	Test Method
to Aluminum @ 25C, psi	1500	ASTM D1002

CURE SCHEDULE*

Property	Value	Test Method
Cure Time @ 180C, min	60	Typical Cure Schedule

Storage: Store in dry conditions, out of sunlight and in tightly sealed containers.

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

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