

TF E2514F

ELECTRICALLY CONDUCTIVE FILM

TECHNICAL DATA

April, 2012

Product Description

TechFilm E2514F is a high performance, electrically conductive, B-staged film adhesive developed for general purpose grounding 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 E2514F will cure at temperatures above 130°C.

APPLICATIONS

- EMI/RF Shielding
- Ground Planes

FEATURES

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

RECOMMENDED SUBSTRATES

- Gold
- Aluminum

CURED PROPERTIES*

| Property | Value | Test Method |
|---|-------------------------|-------------|
| Color | Silver | Visual |
| Specific Gravity | 3.6 | ASTM D790 |
| Glass Transition Temperature, C | 115 | ASTM E1545 |
| Linear Coefficient of Thermal Expansion, $\times 10^{(-6)}/C$ | Alpha 1 (below Tg): 57 | ASTM E831 |
| | Alpha 2 (above Tg): 350 | ASTM E831 |
| Lap Shear Strength, 25C, psi | to Aluminum: 1500 | ASTM D1002 |
| | to Gold: 1100 | ASTM D1002 |
| Volume Resistivity, 25C, Ohm-cm | $2.0 \times 10^{(-3)}$ | TFTEST004A |

CURE SCHEDULE*

| Property | Value | Test Method |
|-----------------------|-------|-------------------------|
| Cure Time @ 150C, min | 60 | Typical Cure Schedule |
| Cure Time @ 140C, min | 90 | Alternate Cure Schedule |

Shelf Life: One Month @ 20C Two Months @ 10C Three months @ -10C One year @ -40C

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