

Bondfilm™ ECF 9001 is an unsupported silver filled epoxy adhesive film that is electrically conductive in x, y and z axis. It can be useful for RF/EMI shielding, heat-sink applications and hybrid microelectronic substrate attach. It offers uniform adhesive bondlines with little or no squeeze out.

*“A Reliable
and Responsive
Adhesive
Company.”*

Adhesive Properties

| | |
|---|---|
| Color: | Silver Grey |
| Work Life @ 25°C: | 14 days |
| Cure Options: | 30 minutes @ 150°C or 1 hour @ 125°C |
| Service Temperature Range: | -40°C to 175°C |
| Lap Shear Strength @ 25°C (Al to Al): | 3000 psi |
| @ 150°C (Al to Al): | 700 psi |
| @ 25°C (Au to Au): | 3000 psi |
| Electrical Resistance: | |
| (Measured through bonded gold joints): | 0.009 ohm/.25 in ² |
| Glass Transition Temperature (T _g): | 112°C |
| Weight Loss on Curing: | 0.15% |
| Weight Loss @ 300°C: | 0.40% |
| Coefficient of Thermal Expansion: | |
| Below T _g : | 54 x 10 ⁻⁶ in/in/°C |
| Above T _g : | 156 x 10 ⁻⁶ in/in/°C |
| Shelf Life: | 6 months @ 5°C |
| Availability: | 3 to 6 mil thicknesses |

Adhesive properties are not intended to be used as specification limits.

Bondline™
Electronic Adhesives, Inc.

756 N. Pastoria Avenue, Sunnyvale, CA 94085 USA
Phone: 408-830-9200 Fax: 408-830-9266 Website: www.bondline.net

Rev. 02/04/04

INSTRUCTIONS:

Bondline ECF 9001 is an unsupported film adhesive and requires careful handling to avoid flexing and stretching while frozen.

1. Parts to be bonded need to be preheated to 40°C.
2. Remove release paper from one side of the film adhesive and place film on the warmed (40°C) part.
3. Remove any air voids between the adhesive film and the warmed part by softly pressing any voids under the release paper.
4. Allow part to cool to temperature.
5. Remove the release paper and attach the top part.
6. Apply 10 psi continuous pressure during cure.

AVAILABILITY:

BondfilmTM ECF 9001X epoxy film is available in sheet stock and die cut preforms. Die cut preforms are cut to customer specifications. Width and length tolerances are \pm .005 inch. Thickness tolerance \pm .001 inch.

STORAGE LIFE:

6 months @ 5°C

CAUTION: For industrial use only. People with sensitive skin may have a reaction to this adhesive. Avoid skin contact. Wash all areas with soap and water immediately if contact does occur. It is important to refer to Material Safety Data Sheet (MSDS) OSHA for more details.

BondlineTM
Electronic Adhesives, Inc.

756 N. Pastoria Avenue, Sunnyvale, CA 94085 Phone: 408-830-9200 Fax: 408-830-9266 Website: www.bondline.net

© Bondline Electronic Adhesives, Inc. All rights reserved. All trademarks and registered trademarks belong to their respective owners. Notice to User: The information contained herein is based on technical data and tests which we believe reliable. It should be used by persons who have technical skill, at their own discretion and risk. Since conditions of use are outside of Bondline's control, we can assume no liability of results obtained or damages incurred through the application of data presented. Bondline's sole liability is limited to refund of purchase price of any product shown to be defective.