

Epoxy Film Adhesives **BOND FILM™ ECF 9000**

Bondfilm™ ECF 9000 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. Available in thickness from .003 -.005, 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):	4000 psi
@ 150°C (Al to Al):	700 psi
@ 25°C (Au to Au):	3000 psi
Electrical Resistance:	
(Measured through bonded gold joints):	0.0001 ohm/.25 in ²
Glass Transition Temperature (T _g):	119°C
Weight Loss on Curing:	0.15%
Weight Loss @ 300°C:	0.34%
Coefficient of Thermal Expansion:	
Below T _g :	18 x 10 ⁻⁶ in/in/°C
Above T _g :	317 x 10 ⁻⁶ in/in/°C
Shelf Life:	6 months @ 5°C

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

Bondline™
Electronic Adhesives, Inc.

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INSTRUCTIONS:

Bondline ECF 9000 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 9000 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.

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