

BONDFILM ECF 8210

EPOXY FILM ADHESIVES

Bondfilm ECF 8210 is a 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.

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 150°C
Lap Shear Strength @ 25°C (Al to Al)	4000 psi
@ 25°C (Au to Au)	3000 psi
@ 150°C (Al to Al)	700 psi
Electrical Resistance	0.0001 ohm/.25 in ² (Measured through bonded gold joints)
Glass Transition Temperature (Tg)	119°C
Weight Loss on Curing	0.15%
Weight Loss @ 300°C	0.34%
Coefficient of Thermal Expansion**	
Below Tg	18 x 10 ⁻⁶ in/in/°C
Above Tg	317 x 10 ⁻⁶ in/in/°C
Shelf Life	1 year @ -40°C 6 months @ 5°C

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

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INSTRUCTIONS

Place film adhesive between surfaces to be bonded. Apply continuous pressure of 1-5 psi during cure, using weight or spring loaded clamp.

AVAILABILITY

Bondfilm ECF8210 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

Storage life of sheet stock is 10 days, when stored at room temperature. Storage life is 1 year at -40°C or colder. Die cut preforms require storage at 5°C or colder. At 5°C , storage life is 6 months.

TECHNICAL SERVICE CONTACT

For recommendations and help with any aspect of adhesive applications please contact the Bondline Technical Service Department (408) 830-9200, or via email: info@bondline.net or visit our website, www.bondline.net

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 Safety Data Sheet (SDS) OSHA for more details.

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