

BONDFILM 8310

HIGH PERFORMANCE FILM ADHESIVES

Bondfilm 8310 is a glass fabric supported thermally conductive film adhesive. It is formulated to bond materials with mismatched coefficient of thermal expansion. It also offers a controlled bondline thickness.

ADHESIVE PROPERTIES

Color	Cream
Work Life @ 25°C	10 days
Cure Options	30 minutes @ 150°C or 2 hours @ 125°C
Service Temperature Range	-40°C to 150°C
Lap Shear Strength @ 25°C (Al to Al)	3500 psi
@ 25°C (Au to Au)	2000 psi
Glass Transition Temperature (Tg)	59°C
Specific Heat	1.48 J/gK
Thermal Diffusivity	.0029 cm ² /s
Thermal Conductivity	0.80 W/mK
Weight Loss @ 300°C	0.42%
Coefficient of Thermal Expansion**	
Below Tg	65 x 10 ⁻⁶ in/in/°C
Above Tg	299x 10 ⁻⁶ in/in/°C
Shelf Life	6 months @ 5°C 1 year @ -40°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 8310 epoxy film is available in sheet stock and die cut preforms. 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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