

## BONDLINE 2106

### ELECTRICALLY CONDUCTIVE ADHESIVE

Bondline 2106 is a silver filled, premixed and frozen epoxy. It provides excellent adhesion to difficult-to-bond materials like lead, gold, silver and stainless steel. Offers good adhesion at temperatures as low as -195° C.

### ADHESIVE PROPERTIES

<b>Color</b>	Silver
<b>Viscosity*</b>	30,000 cps
<b>Work Life @ 25°C</b>	2 hours
<b>Hardness (Shore D)</b>	67
<b>Cure Options**</b>	1 hour @ 95°C or
<b>Service Temperature Range</b>	-195°C to 125°C
<b>Lap Shear Strength @ 25°C (Al to Al)</b>	3000 psi
<b>@ 25°C (Al to Al)</b>	2800 psi
<b>Specific Gravity</b>	2.86
<b>Glass Transition Temperature (Tg)**</b>	21°C
<b>Volume Resistivity**</b>	
<b>Cured 1 hour @ 95°C</b>	.0002 ohm-cm
<b>Weight Loss (TGA) @ 85°C</b>	NIL
<b>@ 105°C</b>	0.023%
<b>Coefficient of Thermal Expansion**</b>	
<b>Above Tg</b>	194x 10 <sup>-6</sup> in/in/°C
<b>Shelf Life</b>	3 months @ -40°C or colder
<b>Availability</b>	Net volume 1cc to 2.5cc, available in disposable 3cc syringes.

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

\* Brookfield DV-II+, CP 51 Spindle, 1 rpm, 25°C

\*\* Cured 3 hours @ 75°C

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## GENERAL INSTRUCTIONS FOR ADHESIVE STORAGE/ USE

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### FROZEN STORAGE

This adhesive must be stored at (minus)  $-40^{\circ}\text{C}$  ( $^{\circ}\text{F}$ ) or colder at all times. Storing this adhesive at temperatures warmer than (minus)  $-40^{\circ}\text{C}$  ( $^{\circ}\text{F}$ ) will shorten its work life.

DO NOT RE-FREEZE adhesive that has already been thawed!

### THAWING PROCESS

Remove frozen syringe from freezer. Place in vertical position with lure lock end pointed down during thaw.

Adhesive must reach room temperature before use. See chart below based on syringe size.

SYRINGE SIZE	THAW TIME
1cc	5 minutes
3cc	10 minutes
5cc	15 minutes
10cc	20 minutes

### SURFACE PREPARATION

Make sure that all surface areas to be bonded are free of any contamination. If parts have been solvent cleaned make sure solvent is dried before applying adhesive

### APPLICATION

Check the work life of the adhesive, on the technical data sheet. Adhesives must be used within its work life .The adhesives' properties will change if it is used past the allowable work life. Apply adhesive using dispensing equipment of choice. Contact Bondline Technical Service with questions about dispensing adhesives.

### CURE

Choose a Cure Option (time & temperature) from the Bondline technical data sheet. Preheat the oven to the temperature of the selected cure option. For optimum cure, do not deviate from the selected cure option. Be sure to allow additional time for holding fixtures to reach cure temperature. Avoid opening oven doors during cure. Large fixtures and/or multiple fixtures may require extended cure time.

### SAFETY

Review the adhesive Safety Data Sheet (SDS) before using. Refer to the SDS in case of emergency. Always wear protective gloves and goggles while handling adhesives. Only work with adhesives in well-ventilated areas, with curing ovens vented outside. For industrial use only.

### 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](mailto:info@bondline.net) or visit our website, [www.bondline.net](http://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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