

Liqui-Bond® SA 2000

Thermally Conductive, One-Part, Liquid Silicone Adhesive

Features and Benefits

- High thermal conductivity: 2.0 W/m-K
- Eliminates need for mechanical fasteners
- One-part formulation for easy dispensing
- Mechanical and chemical stability
- Maintains structural bond in severe-environment applications
- Heat cure



Liqui-Bond SA 2000 is a high performance, thermally conductive silicone adhesive that cures to a solid bonding elastomer. Liqui-Bond SA 2000 is supplied as a one-part liquid component, in either tube or mid-sized container form.

Liqui-Bond SA 2000 features excellent low and high-temperature mechanical and chemical stability. The material's mild elastic properties assist in relieving CTE stresses during thermal cycling. Liqui-Bond SA 2000 cures at elevated temperatures and requires refrigeration storage at 10°C.

TYPICAL PROPERTIES OF LIQUI-BOND SA 2000			
PROPERTY AS SUPPLIED	IMPERIAL VALUE	METRIC VALUE	TEST METHOD
Color	Yellow	Yellow	Visual
Viscosity (cps) (1)	200,000	200,000	ASTM B2196
Density (g/cc)	2.4	2.4	ASTM D792
Shelf Life @ 10°C (months)	6	6	—
PROPERTY AS CURED - PHYSICAL			
Hardness (Shore A)	80	80	ASTM D2240
Continuous Use Temp (°F) / (°C)	-76 to 392	-60 to 200	—
Shear Strength (psi) / (MPa)	200	1.4	ASTM D1002
PROPERTY AS CURED - ELECTRICAL			
Dielectric Strength (V/mil) / (V/mm)	250	10,000	ASTM D149
Dielectric Constant (1000 Hz)	6.0	6.0	ASTM D150
Volume Resistivity (Ohm-meter)	10 ¹¹	10 ¹¹	ASTM D257
Flame Rating	V-O	V-O	U.L.94
PROPERTY AS CURED - THERMAL			
Thermal Conductivity (W/m-K)	2.0	2.0	ASTM D5470
CURE SCHEDULE			
Pot Life @ 25°C (hours) (2)	24	24	—
Cure @ 125°C (minutes) (3)	20	20	—
Cure @ 150°C (minutes) (3)	10	10	—

1) Brookfield RV, Heli-path, Spindle TF @ 20 rpm, 25°C.
 2) Based on 1/8" diameter bead.
 3) Cure Schedule - time after cure temperature is achieved at the interface. Ramp time is application dependent.

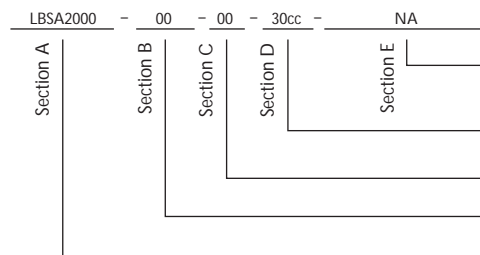
Typical Applications Include:

- PCBA to housing
- Discrete component to heat spreader

Configurations Available:

- With or without glass beads

Building a Part Number



Standard Options

◀ example

NA = Selected standard option. If not selecting a standard option, insert company name, drawing number, and revision level.

Cartridges: 30cc = 30.0cc, 600cc = 600.0cc (ml)
 Pail: 0.85G = 0.85-gallon, 5G = 5-gallon

00 = No adhesive

00 = No spacer beads
 07 = 0.007" spacer beads

LBSA2000 = Liqui-Bond SA 2000 Liquid Adhesive Material

Note: To build a part number, visit our website at www.bergquistcompany.com.



www.bergquistcompany.com

The Bergquist Company -
 North American Headquarters
 18930 West 78th Street
 Chanhassen, MN 55317
 Phone: 800-347-4572
 Fax: 952-835-0430

The Bergquist Company -
 European Headquarters
 Bramenberg 9a, 3755 BT Eemnes
 Netherlands
 Phone: 31-35-5380684
 Fax: 31-35-5380295

The Bergquist Company - Asia
 Room 15, 8/F Wah Wai Industrial Centre
 No. 38-40, Au Pui Wan Street
 Fotan, Shatin, N.T. Hong Kong
 Ph: 852.2690.9296
 Fax: 852.2690.2344

All statements, technical information and recommendations herein are based on tests we believe to be reliable, and THE FOLLOWING IS MADE IN LIEU OF ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MARKETABILITY AND FITNESS FOR PURPOSE. Sellers and manufacturers' only obligation shall be to replace such quantity of the product proved to be defective. Before using, user shall determine the suitability of the product for its intended use, and the user assumes all risks and liability whatsoever in connection therewith. NEITHER SELLER NOR MANUFACTURER SHALL BE LIABLE EITHER IN TORT OR IN CONTRACT FOR ANY LOSS OR DAMAGE, DIRECT, INCIDENTAL OR CONSEQUENTIAL, INCLUDING LOSS OF PROFITS OR REVENUE ARISING OUT OF THE USE OR THE INABILITY TO USE A PRODUCT. No statement, purchase order or recommendations by seller or purchaser not contained herein shall have any force or effect unless in an agreement signed by the officers of the seller and manufacturer.

PDS_LBSA_2000_12.08