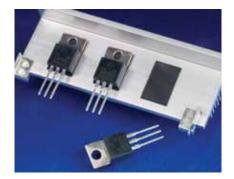
# Liqui-Bond<sup>®</sup> SA 1000 (One-Part)

## Features and Benefits

- High thermal performance
- Eliminates need for mechanical fasteners
- Low viscosity for ease of screening or stenciling
- Can achieve a very thin bond line
- Mechanical and chemical stability
- · Maintains structural bond in severe-environment applications
- Heat cure



Liqui-Bond SA 1000 is a thermally conductive, one-part liquid silicone adhesive with a low viscosity for easy screenability. Liqui-Bond SA 1000 features a high thermal performance and maintains it's structure even in severeenvironment applications.

Liqui-Bond SA 1000 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 1000 contains no cure by-products, cures at elevated temperatures and requires refrigeration storage at 10°C. The material is available in both tube and mid-sized container forms.

Thermally Conductive, One-Part, Liquid Silicone Adhesive

TYPICAL PROPERTIES OF LIQUI-BOND SA 1000			
PROPERTY AS SUPPLIED	IMPERIAL VALUE	METRIC VALUE	TEST METHOD
Color	Black	Black	Visual
Viscosity (cps) (1)	125,000	125,000	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)	75	75	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)	5.5	5.5	ASTM D150
Volume Resistivity (Ohm-meter)	1010	1010	ASTM D257
Flame Rating	V-O	V-O	U.L.94
PROPERTY AS CURED - THERMAL			
Thermal Conductivity (W/m-K)	1.0	1.0	ASTM D5470
CURE SCHEDULE			
Pot Life @ 25°C (hours) (2)	10	10	_
Cure @ 125°C (minutes) (3)	20	20	
Cure @ 150°C (minutes) (3)	10	10	_
1) Brookfield RV, Heli-path, Spindle TF @ 20 rpm, 25° 2) Based on 1/8" diameter head	C.		

Based on 1/8" diameter bead

3) Cure Schedule - time after cure temperature is achieved at the interface. Ramp time is application dependent

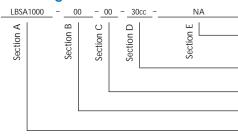
## **Typical Applications Include:**

- 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

LBSA1000 = Liqui-Bond SA 1000 Liquid Adhesive Material

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



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The Bergquist Company - Asia New Gergquist Company - Asid Room 15, 8/F Wah Wai Industrial Centre No. 38-40, Au Pui Wan Street Fotan, Shatin, N.T. Hong Kong Ph: 852.2690.2946 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 CONSCOUNTIAL, INCLUDING LOSS OF PROFITS OR REVENUE ARSING 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\_LBASA\_1000\_1208 PDS LBSA 1000 12.08