

BERGQUIST LIQUI BOND TLB SA2000

BERGQUIST LIQUI-BOND SA 2000
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PRODUCT DESCRIPTION

Thermally Conductive, One-Part, Liquid Silicone Adhesive.

Technology	Silicone
Appearance	Yellow
Cure	Heat cure
Application	Thermal management, TIM (Thermal Interface Material)
Operating Temperature Range	-60 to 200°C
UL Flammability Rating	UL 94 V-0

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

BERGQUIST LIQUI BOND TLB SA2000 is a high performance, thermally conductive silicone adhesive that cures to a solid bonding elastomer. BERGQUIST LIQUI BOND TLB SA2000 is supplied as a one-part liquid component, in either tube or mid-sized container form.

BERGQUIST LIQUI BOND TLB SA2000 features excellent low and high-temperature mechanical and chemical stability. The material's mild elastic properties assist in relieving CTE stresses during thermal cycling. BERGQUIST LIQUI BOND TLB SA2000 cures at elevated temperatures and requires refrigeration storage at 10°C.

TYPICAL APPLICATIONS

- PCBA to housing
- Discrete component to heat spreader

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity, Brookfield - RV, - Helipath, ASTM D2196, 25 °C, mPa·s (cP):

Spindle TF, speed 20 rpm	200,000
Density, ASTM D792, g/cc	2.4
Shelf Life @ 10°C, months	6
Pot life @ 25°C, based on 1/8" diameter bead, hours	24

TYPICAL CURE SCHEDULE

Cure Schedule

- 20 minutes @ 125°C or
- 10 minutes @ 150°C

Time after cure temperature is achieved at the interface. Ramp time is application dependent.

TYPICAL PROPERTIES OF CURED MATERIAL

Physical Properties

Hardness, Shore A, ASTM D2240 80

Electrical Properties

Dielectric Strength, ASTM D149, V/mm 10,000
Dielectric Constant, ASTM D150, 1,000Hz 6.0
Volume Resistivity, ASTM D257, ohm-meter 1×10^{11}

Thermal Properties

Thermal Conductivity, ASTM D5470, W/(m-K) 2.0

TYPICAL PERFORMANCE OF CURED MATERIAL

Shear Strength

Shear Strength, ASTM D1002 MPa 1.4
(psi) (200)

GENERAL INFORMATION

For safe handling information on this product, consult the Safety Data Sheet, (SDS).

Not for product specifications

The technical data contained herein are intended as reference only. Please contact your local quality department for assistance and recommendations on specifications for this product.

The above cure profiles are guideline recommendations. Cure conditions (time and temperature) may vary based on customers' experience and their application requirements, as well as customer curing equipment, oven loading and actual oven temperatures.

CONFIGURATIONS AVAILABLE

BERGQUIST LIQUI BOND TLB SA2000 is available with or without glass beads.

STORAGE

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

Optimal Storage: 10°C for a 6 month shelf life. Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel Corporation cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Technical Service Center or Customer Service Representative.

Conversions

$$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$$

$$\text{kV/mm} \times 25.4 = \text{V/mil}$$

$$\text{mm} / 25.4 = \text{inches}$$

$$\text{N} \times 0.225 = \text{lb}$$

$$\text{N/mm} \times 5.71 = \text{lb/in}$$

$$\text{psi} \times 145 = \text{N/mm}^2$$

$$\text{MPa} = \text{N/mm}^2$$

$$\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$$

$$\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$$

$$\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$$

$$\text{mPa}\cdot\text{s} = \text{cP}$$

repetitive use, using this data as a guide. This product may be covered by one or more United States or foreign patents or patent applications.

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Reference 2

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