

BERGQUIST® LIQUI BOND TLB 400SLT AP

October 2024

Product description

BERGQUIST® LIQUI BOND TLB 400SLT AP provides the following product characteristics:

Technology	Silicone
Chemical type	2K addition cure
Appearance (cured)	Black
Appearance - Part A	Off-white
Appearance - Part B	Black
Mixing ratio	1:1 by volume 1:1 by weight
Cure	Room temperature or heat cure
Application	Electronic assemblies

BERGQUIST® LIQUI BOND TLB 400SLT AP is a high-performance two-part silicone sealant designed for automotive applications. It offers an adaptable and reliable cure at multiple temperatures, independent of ambient moisture.

Typical properties of uncured material

Specific gravity @ 25°C, ASTM D792, g/cc	
Part A	1.50
Part B	1.50
Mixture (A + B)	1.50
Viscosity, @ 25°C, ASTM D2196, 1 1/s, Pa.s	
Part A	621
Part B	619
Shelf life @ 25°C, months	6

Typical properties of cured material

Physical properties

Hardness, Shore A ⁽¹⁾ , ASTM D2240	40
Elongation, ASTM D412, %	350
Tensile strength, ASTM D412, MPa	2.1
Lap shear strength, ASTM D1002, Electro-deposited Al, MPa	2.0
Flammability, UL 94	V0

Electrical properties

Dielectric constant, ASTM D150, 25°C, @1,000Hz	4.3
Dielectric strength, ASTM D149, kV/mm	19
Volume resistivity, ASTM D257, ohm-cm	6.0×10 ¹³

⁽¹⁾Cured at 85°C for 30 minutes, and test after 24 hours in 25°C/50%RH waiting

General information

For safe handling information on this product, consult the Material Safety Data Sheet.

Directions for use

1. For high strength structural bonds, removal of surface contaminants such as paint, oxide films, oils, dust, mold release agents and all other surface contaminants.
2. Use gloves to minimize skin contact. DO NOT use solvents for cleaning hands.
3. Dual Cartridges: Insert the cartridge into the application gun and start the plunger into the cylinders using light pressure on the trigger. Next, remove the cartridge cap and expel a small amount of adhesive to be sure both sides are flowing evenly and freely. Attach the static mixing nozzle to the end of the cartridge and begin dispensing the adhesive. Purge and dispose of the first 3 - 5 cm from the end of the mix nozzle, as it may not be sufficiently mixed.
4. Bulk Containers: Utilize volumetric dispense system to ensure proper mix ratio and utilize mix nozzle to obtain adequate mixing.

Storage

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

Optimal storage: 5 to 25°C for a 6 months shelf life.

Optimal shipping: 7 days, -20 to 30°C

Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel 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 Henkel representative.

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 the specifications of this product.

Note:

This product is a developmental product. It is not now, and may not be in the future, commercially available. The properties of the uncured material and the physical properties of the cured material have been established as a point of reference only. Henkel recommends that each prospective user test his proposed application before repetitive use, using this data as a guide. The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Henkel Corporation patents that may cover such processes or compositions. This product may contain materials that are not regulatory listed on TSCA, EINECs and other global inventories.

Conversions

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$
 $\text{kV/mm} \times 25.4 = \text{V/mil}$
 $\text{mm} / 25.4 = \text{inches}$
 $\mu\text{m} / 25.4 = \text{mil}$
 $\text{N} \times 0.225 = \text{lb}$
 $\text{N/mm} \times 5.71 = \text{lb/in}$
 $\text{N/mm}^2 \times 145 = \text{psi}$
 $\text{MPa} \times 145 = \text{psi}$
 $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$
 $\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$
 $\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$
 $\text{mPa}\cdot\text{s} = \text{cP}$

Disclaimer

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Reference 1