

# LOCTITE ABLESTIK 2158 BIPAX

March 2018

## PRODUCT DESCRIPTION

LOCTITE ABLESTIK 2158 BIPAX provides the following product characteristics:

<b>Technology</b>	Epoxy
<b>Appearance</b>	Tan
<b>Components</b>	Two components - requires mixing
<b>Product Benefits</b>	<ul style="list-style-type: none"> <li>Two component</li> <li>Thermally conductive : 2.0 W/m-K</li> <li>Electrically Insulating</li> <li>Flexible for Bonding Mismatched Adherends</li> <li>Room temperature cure</li> </ul>
<b>Mix Ratio, (by weight) Resin : Hardener</b>	100 : 38
<b>Typical Assembly Applications</b>	Staking transistors, Diodes, Resistors, Integrated circuits and Heat sensitive components to PCBs
<b>Cure</b>	Room temperature or Heat cure
<b>Operating Temperature</b>	-70 to 125°C
<b>Application</b>	Assembly, NCA
<b>Surfaces</b>	Many metals, Silica, Steatite, Alumina, Sapphire, Glass, Plastics and Ceramics

LOCTITE ABLESTIK 2158 BIPAX is a two-part adhesive that develops strong, durable high-impact bonds at room temperature which improve heat transfer while maintaining electrical insulation. LOCTITE ABLESTIK 2158 BIPAX bonds offer resistance to salts, mild acids and alkalis, petroleum products, lubricating oils and alcohol.

## TYPICAL PROPERTIES OF UNCURED MATERIAL

Mixed Viscosity @ 25 °C, mPa·s (cP)	15,000
Specific Gravity, mixed	2.3
Pot Life , hours	3
Shelf Life - Refer to package label	
Flash Point - See SDS	

## TYPICAL CURING PERFORMANCE

### Cure Schedule

24 hours @ 25°C or  
2 to 4hours @ 65°C

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.

## TYPICAL PROPERTIES OF CURED MATERIAL

### Physical Properties :

Hardness, Shore D	60
Thermal Conductivity, W/(m-K)	8.40×10 <sup>-01</sup>
Reactive solids contents, %	100

### Electrical Properties:

Volume Resistivity @ 75°C, ohm-cm	2×10 <sup>+15</sup>
Dielectric Strength, volts/mil	410
Dielectric Constant / Dissipation Factor @ 25°C: @ 1KHz	5.9/0.01

## TYPICAL PERFORMANCE OF CURED MATERIAL

### Lap Shear Strength :

Aluminum to aluminum	N/mm <sup>2</sup> 12.75 (psi) (1,850)
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## GENERAL INFORMATION

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

## DIRECTIONS FOR USE

- Carefully clean and dry all surfaces to be bonded.
- Remove clamp and thoroughly mix the LOCTITE ABLESTIK 2158 BIPAX epoxy adhesive system components in the handy BIPAX mixing-dispenser package until color is uniform throughout.
- Apply this completely mixed adhesive to the prepared surfaces, and gently press these surfaces together. Contact pressure is adequate for strong, reliable bonds; however, maintain contact until adhesive is completely cured.
- Some ingredients in this formulation provided in BIPAX, TRA-PAX and bulk packaging may crystallize when subjected to low temperature storage. A gentle warming cycle of 50°C for 30 minutes prior to mixing components may be necessary. Crystallized epoxy components do not react as well as liquid components and should be redissolved prior to use for best results.

**STORAGE:**

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

**Optimal Storage : 25 °C**

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**

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

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