

LOCTITE ABLESTIK 2101 BIPAX

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PRODUCT DESCRIPTION

LOCTITE ABLESTIK 2101 BIPAX provides the following product characteristics:

Technology	Epoxy
Appearance	Clear to slightly hazy liquid
Cure	Room Temperature or Heat Cure
Product Benefits	• Medium viscosity • Two component • Easy mixing • Room temperature cure • Good insulator • Good chemical resistance
Application	Non-conductive adhesive
Operating Temperature	-60 to 135 °C
Mix Ratio, by weight - Resin : Hardener	100 : 25
Surfaces	Metals, Ceramics, Glass, Wood, Leather and Many rigid plastics

LOCTITE ABLESTIK 2101 BIPAX is recommended for laminating, bonding, repair and other adhesive applications where the combination of its superior structural, mechanical, and electrical performance properties are required. When fully cured, LOCTITE ABLESTIK 2101 BIPAX provides excellent resistance to weather, galvanic action, salt solutions, and many chemicals including mild acids and alkalis, petroleum solvents, lubricating oils, jet fuels, gasoline, and alcohol.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity @ 25 °C, mPa·s (cP), Mixed	19,000
Specific Gravity, mixed	1.2
Hardness, Shore-D	85
Pot Life @ 25°C, minutes	30
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE

Cure Schedule

4 hours @ 65°C
24 hours @ 25°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 :

Coefficient of Linear Thermal Expansion, ppm/°C	55
Glass Transition Temperature (Tg), °C	62.0
Izod Impact Strength, ft-lb/in. of notch	0.8
Reactive solids contents, %	100

Electrical Properties:

Dielectric Strength, volts/mil	370
Dielectric Constant @ 25°C : @ 1 KHz	4.3
Dissipation Factor @ 25°C: @ 1 KHz	0.02
Volume Resistivity, ohm-cm @ 25°C	6×10 ¹⁵
Volume Resistivity, ohm-cm @ 100°C	5×10 ⁹

TYPICAL PERFORMANCE OF CURED MATERIAL

Lap Shear Strength :

Al to Al	N/mm ² 23 (psi) (3,300)
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GENERAL INFORMATION

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

DIRECTIONS FOR USE

1. Carefully clean and dry all surfaces to be bonded
2. If packaged in BIPAX, remove clamp and thoroughly mix the LOCTITE ABLESTIK 2101 BIPAX epoxy adhesive system components in the handy BIPAX mixing-dispenser package until color is uniform throughout
3. 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
4. Cure at recommended cure schedules
5. 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 52°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

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.

STORAGE:

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

Optimal Storage : ≤27 °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

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

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

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

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

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

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

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

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

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

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

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

Disclaimer**Note:**

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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