

LOCTITE ABLESTIK FS 163 BIPAX

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PRODUCT DESCRIPTION

LOCTITE ABLESTIK FS 163 BIPAX provides the following product characteristics:

Technology	Polyamide/epoxy
Appearance	Amber
Cure	Room Temperature or Heat Cure
Product Benefits	<ul style="list-style-type: none"> • Two component • Medium viscosity • Good toughness • Good mechanical properties • Easy mixing • Low-temperature impact resistance • Low-temperature electrical properties • Low-temperature mechanical properties • Thermal shock resistant • Low permeability to gases and vapors • Good dimensional stability
Mix Ratio, by weight - Resin : Hardener	100 : 100
Application	Non-conductive adhesive
Operating Temperature	-60 to 100 °C
Surfaces	Metals, Rigid plastics, Glass, Ceramics, Leather, Rubber, Wood and Concrete

LOCTITE ABLESTIK FS 163 BIPAX is recommended for industrial bonding and sealing applications. LOCTITE ABLESTIK FS 163 BIPAX bonds offer resistance to water, weather, ozone, petroleum products, mild acids and alkalis and other chemicals.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Mixed Viscosity @ 25°C, mPa·s (cP)	30,000
Thixotropic Index	1.0
Specific Gravity, mixed	1.12
Pot Life @ 25°C, minutes	75
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

Hardness, Shore D	77
Coefficient of Linear Thermal Expansion, ppm/°C	64
Izod Impact Strength, ft-lb/in. of notch	1.14
Reactive solids contents, %	100

Electrical Properties

Dielectric Strength, kV/mm	18
Dielectric Constant / Dissipation Factor @ 25°C: @ 1KHz	3.35/0.01
Volume Resistivity @ 25°C, ohm-cm	1.00×10 ¹⁴

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. Remove clamp and thoroughly mix the LOCTITE ABLESTIK FS 163 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. 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

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:**

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