

LOCTITE ABLESTIK 2111 BIPAX

December 2016

PRODUCT DESCRIPTION

LOCTITE ABLESTIK 2111 BIPAX provides the following product characteristics:

Technology	Ероху			
Color	Hazy white			
Cure	Room temperature cure or Heat cure			
Operating Temperature	-70 to 100 °C			
Product Benefits	Long pot life			
	Good wetting			
	Non-sag			
	 Non-drip rheology 			
	 Improved impact strength 			
	Excellent thermal and mechanical shock resistance			
	 Excellent environmental resistance 			
Mix Ratio, by weight - Resin : Hardener	100 : 30			
Application	Assembly			
Typical Assembly	Bonding, Laminating, Staking, Repair			
Applications	and Manufacturing			
Substrates	Glass, Ceramic, Fabric, Wood, Leather, Glass fabrics, Most metals and Many plastics			

LOCTITE ABLESTIK 2111 BIPAX is a thixotropic epoxy resin and hardener formulated for ease of use. This two part adhesive system contains no volatile solvents.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Mixed Viscosity @ 25 °C, mPa·s (cP):	
Spindle TF, Speed 10 rpm	40,000
Specific Gravity, mixed	1.24
Pot Life:	
@ 25 grams, minutes	40
@ 100 grams, minutes	20

TYPICAL CURING PERFORMANCE

Cure Schedule

24 hours @ 25°C

Alternative Cure Schedule

4 hours @ 25°C plus 4 hours @ 65°C plus

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 Expansion, cm/cm/°C	5.5×10⁻⁵
Glass Transition Temperature (Tg), °C, ultimate	45.0
Hardness, Shore D	82
Refractive Index	1.53
Water Absorption, after 24 hours, %	3.3
Izod Impact Strength, ft-lb/in. of notch	2
Elongation, %	26
Outgassing Properties VOC, grams/liter	31.2
Electrical Properties Volume Resistivity, ohm-cm @ 25°C	9.50×10 ⁰⁸

TYPICAL PERFORMANCE OF CURED MATERIAL

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Lap Shear Strength:				
Aluminum to Aluminum			N/mm²	24
			(psi)	(3,500)

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
- Remove clamp and thoroughly mix the LOCTITE ABLESTIK 2111 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
- 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 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

The expiration date is based upon dry storage conditions at or below 27°C, unless specified otherwise on the packaging, in the original, sealed and unopened containers for BIPAX, TRA-PAX and bulk packaged materials. The expiration date for pre-mixed and frozen materials is based upon dry storage conditions at or below the temperature indicated on each package. Contents may separate during storage. Resin or hardener in bulk containers (e.g., quarts, gallons) should be thoroughly mixed prior to combining them to obtain all the benefits of the properties designed into the formulation.

Conversions

 $({}^{\circ}C \times 1.8) + 32 = {}^{\circ}F$ kV/mm x 25.4 = V/mil mm / 25.4 = inches N x 0.225 = lb N/mm x 5.71 = lb/in psi x 145 = N/mm² MPa = N/mm² N·m x 8.851 = lb·in N·m x 0.738 = lb·ft N·mm x 0.142 = oz·in mPa·s = 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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