

LOCTITE ABLESTIK 16-1LV

May 2014

PRODUCT DESCRIPTION

LOCTITE ABLESTIK 16-1LV provides the following product characteristics:

Technology	Ероху
Appearance	gray
Cure	Heat cure and Room temperature cure
Product Benefits	Two component
	 Electrically conductive
	Room temperature cure
	Good adhesion
	 Low volume resistivity
Application	General assembly
Filler Type	Silver

LOCTITE ABLESTIK 16-1LV epoxy adhesive is designed for general purpose applications. This adhesive cures at room temperature, while providing a reasonable work life. This material is the lower viscosity version of LOCTITE ABLESTIK 16-1 adhesive.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Thixotropic Index (0.5/5 rpm)	3.5
Viscosity, Brookfield CP51, 25 °C, mPa·s (cP):	
Speed 5 rpm	17,000
Work Life @ 25°C, hours	2
Shelf Life @ 25°C (from date of manufacture), days	183
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE

Cure Schedule

30 minutes @ 93°C

Alternate Cure Schedule

24 hours @ 25°C

Weight Loss on Cure

10 x 10 mm Si die on glass slide, % 1.5

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	85
Coefficient of Thermal Expansion, TMA:	
Below Tg, ppm/°C	55
Above Tg, ppm/°C	175
Glass Transition Temperature (Tg), °C	47
Electrical Properties	
Volume Resistivity , ohms-cm	0.005

TYPICAL PERFORMANCE OF CURED MATERIAL Miscellaneous

Die Shear Strength :

2 X 2 mm (80 x 80 mil) Si die, kg-f,

Post Cure

Substrate	@25°C
Ag/Cu Leadframe	9.5

Lap Shear Strength :

Post Cure

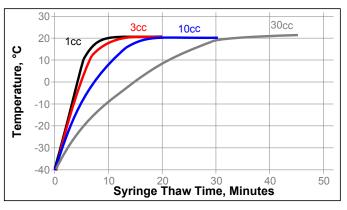
Substrate	N/mm²	psi
AI to AI	4.48	650

GENERAL INFORMATION

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

THAWING:

- 1. Allow container to reach room temperature before use.
- 2. After removing from the freezer, set the syringes to stand vertically while thawing.
- Refer to the Syringe Thaw time chart for the thaw time recommendation.
- DO NOT open the container before contents reach 25°C temperature. Any moisture that collects on the thawed container should be removed prior to opening the container.
- DO NOT re-freeze. Once thawed to -40°C, the adhesive should not be re-frozen.



DIRECTIONS FOR USE

- 1. Thawed adhesive should immediately be placed on dispense equipment for use.
- If the adhesive is transferred to a final dispensing reservoir, care must be exercised to avoid entrapment of contaminants and/or air into the adhesive.



3. Adhesive must be completely used within the product's recommended work life.

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: 25°C. Storage below 25°C or greater than minus 25°C can adversely affect product properties.

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

 $(^{\circ}C x 1.8) + 32 = ^{\circ}F$ kV/mm x 25.4 = V/mil mm / 25.4 = inches N x 0.225 = lb N/mm x 5.71 = lb/in N/mm² x 145 = psi MPa x 145 = psi 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 and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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