

LOCTITE ABLESTIK 976-1

May 2020

PRODUCT DESCRIPTION

LOCTITE ABLESTIK 976-1 provides the following product characteristics:

Technology	Ероху
Appearance	Silver
Cure	Heat cure
Product Benefits	Flexible
	Electrically conductive
	Electronic Material and Component assembly

LOCTITE ABLESTIK 976-1 is designed for use on non-rigid substrates for circuitry formation and component attachment. This material can be applied by automatic dispenser, screen printing or hand probe. LOCTITE ABLESTIK 976-1 is available premixed and frozen or as a two component system with a simple 1:1 mix ratio. However, LOCTITE ABLESTIK 976-1 is not recommended for use in high humidity environments.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity, Brookfield CP51, 25 °C, mPa·s (cP):

@ Speed 5 rpm 9,000 Work Life @ 25°C, (25% increase in viscosity), 8 hours

Storage Life:

Premixed kits @ -40°C, days 365 Two-Part kit @ 25°C, days 365 Flash Point - See SDS

TYPICAL CURING PERFORMANCE

Recommended Cure

2 hours @ 125°C

Alternate Cure

4 hours @ 100°C or 1 hour @ 150°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

Glass Transition Temperature, TMA, °C 66
Coefficient of Thermal Expansion, TMA, ppm/°C:
Below Tg 73
Above Tg 390
Thermal Conductivity, W/(m-K) 2.1
Weight Loss @ 300°C, % 0.2

Electrical Properties

Volume Resistivity, ohm-cm 0.0002

TYPICAL PERFORMANCE OF CURED MATERIAL

Lap Shear Strength @ 25°C:

Al to Al N/mm² 5.17 (psi) (750)

GENERAL INFORMATION

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

THAWING:

- If premixed and frozen, thaw adhesive to room temperature.
- 2. Apply adhesive as required.
- 3. Assemble bonds.
- Place in a preheated oven and cure at the recommended cure schedule.

DIRECTIONS FOR USE

- 1. If kit, mix part A and part B in 1:1 ratio.
- Mix for approximately one minute or until uniformly blended.
- 3. Apply adhesive as required.
- 4. Assemble bonds.
- Place in pre-heated oven and cure at the recommended cure schedule.

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: LOCTITE ABLESTIK 976-1 adhesive packaged in kits may be stored at 25°C for up to one year. Premixed and frozen adhesive must be contiually stored at -40 °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

(°C x 1.8) + 32 = °F kV/mm x 25.4 = V/mil mm / 25.4 = inches N x 0.225 = lb/F 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. Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

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