

LOCTITE ABLESTIK ABP 8035

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PRODUCT DESCRIPTION

LOCTITE ABLESTIK ABP 8035 provides the following product characteristics:

Technology	Silicone
Appearance	Colorless transparent liquid
Cure	Heat cure
Product Benefits	• Good adhesion at high temperatures • Good anti-yellowing properties • High level of heat and UV resistant
Application	Die attach
Typical Package Application(s)	High brightness LED

LOCTITE ABLESTIK ABP 8035 adhesive is designed to provide excellent adhesion specially at wirebonding temperature, minimizing failure rate at assembly. This adhesive is ideal for application by automatic dispense or pin-transfer technology.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity, Brookfield CP51, 25 °C, mPa·s (cP):	
Speed 5 rpm	7,880
Work Life @ 25°C, hours	24
Shelf Life @ -20°C (from date of manufacture), days	183

TYPICAL CURING PERFORMANCE

Cure Schedule

- 1 hour @ 150°C or
- 1 hour @ 175 °C

Weight Loss on Cure

Weight Loss on Cure, sample cured 1 hr @ 150°C, <3 %

The above cure profiles are guideline recommendations. Cure conditions (time and temperature) may vary based on customers' experience and specific application requirements, as well as customer curing equipment, oven loading and actual oven temperatures.

TYPICAL PROPERTIES OF CURED MATERIAL

Physical Properties

Coefficient of Thermal Expansion, :	
Above Tg, ppm/°C	268
Glass Transition Temperature(Tg), °C	-56
Bulk Thermal Conductivity, W/m·°C	0.2
Light Transmittance, %:	
Initial Transmittance, vis-spectrometer, 1mm, 400nm	>90
After Heat Aging, after 1,000 hours @ 150°C	>85
After UV Aging, 0.89 W/m², 340 nm, 1,000 hours	>85

TYPICAL PERFORMANCE OF CURED MATERIAL

Miscellaneous

Die Shear Strength:	
2 X 2 mm (80 x 80 mil) Au to Au, kg-f:	
@ 25°C	2.8

GENERAL INFORMATION

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

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or their strong oxidizing materials.

THAWING:

1. Allow container to reach room temperature before use.
2. After removing from the freezer, set the syringes to stand vertically while thawing.
3. Refer to the Syringe Thaw time chart for the thaw time recommendation.
4. 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.
5. DO NOT re-freeze. Once thawed to 25°C, the adhesive should not be re-frozen.

DIRECTIONS FOR USE

1. Thawed material should immediately be placed on dispense equipment for use.
2. 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.
4. Alternate dispense amounts may be used depending on the application requirements.
5. Star or crossed shaped dispense patterns will yield fewer bondline voids than the matrix style of dispense pattern.

SHIPPING

1. Product is shipped at about 5°C with blue ice to prevent excessive temperature exposure during shipping.

STORAGE

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

Optimal Storage: -20°C. Storage below -20°C or above -20°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 Henkel Representative.

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.

Conversions

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$
 $\text{kV/mm} \times 25.4 = \text{V/mil}$
 $\text{mm} / 25.4 = \text{inches}$
 $\text{N} \times 0.225 = \text{lb/F}$
 $\text{N/mm} \times 5.71 = \text{lb/in}$
 $\text{psi} \times 145 = \text{N/mm}^2$
 $\text{MPa} = \text{N/mm}^2$
 $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$
 $\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$
 $\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$
 $\text{mPa}\cdot\text{s} = \text{cP}$

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Reference 0.1