

# LOCTITE ABLESTIK ABP 8035

November 2016

## PRODUCT DESCRIPTION

LOCTITE ABLESTIK ABP 8035 provides the following product characteristics:

<b>Technology</b>	Silicone
<b>Appearance</b>	Colorless transparent liquid
<b>Cure</b>	Heat cure
<b>Product Benefits</b>	<ul style="list-style-type: none"> <li>• Good adhesion at high temperatures</li> <li>• Good anti-yellowing properties</li> <li>• High level of heat and UV resistant</li> </ul>
<b>Application</b>	Die attach
<b>Typical Package Application</b>	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 @ -40°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 their 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/m <sup>2</sup> , 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).

## STORAGE:

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

**Optimal Storage: -40 °C. Storage below minus (-)40 °C or greater than minus (-)40 °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

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

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Reference 0.1