

# LOCTITE ABLESTIK ABP 2036SF

August 2015

## PRODUCT DESCRIPTION

LOCTITE ABLESTIK ABP 2036SF provides the following product characteristics:

<b>Technology</b>	Proprietary Hybrid Chemistry
<b>Appearance</b>	Red
<b>Filler Type</b>	Silica
<b>Cure</b>	Heat cure
<b>Product Benefits</b>	<ul style="list-style-type: none"> <li>• Non-conductive</li> <li>• Single component</li> <li>• Fast cure</li> <li>• Low cure temperature</li> <li>• Low stress</li> </ul>
<b>Application</b>	Die attach

LOCTITE ABLESTIK ABP 2036SF non-conductive die attach adhesive has been formulated for use in high throughput die attach applications. This material is designed to minimize stress and resulting warpage between dissimilar surfaces.

LOCTITE ABLESTIK ABP 2036SF adhesive is the silane-free version of LOCTITE ABLESTIK 2035SC adhesive.

## TYPICAL PROPERTIES OF UNCURED MATERIAL

Thixotropic Index (0.5/5 rpm)	4.42
Viscosity, Brookfield CP51, 25 °C, mPa·s (cP):	
Speed 5 rpm	12,760
Work Life @ 25°C, (25% increase in viscosity), hour	24
Shelf Life @ -40°C, days	365

## TYPICAL CURING PERFORMANCE

### Cure Schedule

15 minutes @ 150°C

### Alternate Cure Schedule

90 seconds @ 110°C or  
60 seconds @ 120°C or  
10 seconds @ 150°C

### Weight Loss on Cure

Weight Loss on Cure, % 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

Glass Transition Temperature (T <sub>g</sub> ) by DMTA, °C	125
DSC (Differential Scanning Calorimetry):	
On-set temperature, °C	75
Peak temperature, °C	90
Thermal Conductivity, W/(m·K)	0.35

### Modulus :

@ 25°C	N/mm <sup>2</sup> 2,680 (psi) (388,700)
@ 150°C	N/mm <sup>2</sup> 52 (psi) (7,470)
@ 250°C	N/mm <sup>2</sup> 55 (psi) (8,180)

## Electrical Properties

Dielectric Strength, kV/mm	55
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## TYPICAL PERFORMANCE OF CURED MATERIAL

### Miscellaneous

Die Shear Strength :	
2 x 2 mm Si die on PPF LF @ 25 °C, kg/die	12
Hot Die Shear Strength:	
2 x 2 mm Si die on PPF LF @ 150 °C, kg/die	1.6

## 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.
3. 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.
4. DO NOT re-freeze. Once thawed to 25°C, the adhesive should not be re-frozen.

## DIRECTIONS FOR USE

1. Thawed adhesive 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.

## 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: -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**

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$

$\text{kV/mm} \times 25.4 = \text{V/mil}$

$\text{mm} / 25.4 = \text{inches}$

$\text{N} \times 0.225 = \text{lb}$

$\text{N/mm} \times 5.71 = \text{lb/in}$

$\text{N/mm}^2 \times 145 = \text{psi}$

$\text{MPa} = \text{N/mm}^2$

$\text{MPa} \times 145 = \text{psi}$

$\text{N} \cdot \text{m} \times 8.851 = \text{lb} \cdot \text{in}$

$\text{N} \cdot \text{m} \times 0.738 = \text{lb} \cdot \text{ft}$

$\text{N} \cdot \text{mm} \times 0.142 = \text{oz} \cdot \text{in}$

$\text{mPa} \cdot \text{s} = \text{cP}$

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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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