

LOCTITE ABLESTIK ABP 2033S

January 2019

PRODUCT DESCRIPTION

LOCTITE ABLESTIK ABP 2033S provides the following product characteristics:

Technology	Epoxy
Appearance	Silver paste
Filler Type	Silver
Cure	Heat cure
Product Benefits	• One component • Electrically conductive • Low temperature cure • Low and stable contact resistance • Alternative to solder
Application	Semiconductor material, Conductive adhesive
Typical Assembly Applications	Camera module assembly
Key Substrates	LCP, Ni and Cu

LOCTITE ABLESTIK ABP 2033S adhesive paste is designed for camera module applications. It is ideal for application by needle dispense.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity, Brookfield CP51, 25 °C, , mPa·s (cP):	
Speed 5 rpm	13,600
Thixotropic Index (0.5/5 rpm)	3.4
Work Life @ 25°C, hours	24
Shelf Life @ -40°C (from date of manufacture), days	180
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE**Cure Schedule**

30 minutes @ 100°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 (T _g) by TMA, °C	129
Coefficient of Thermal Expansion, :	
Below T _g , ppm/°C	45
Above T _g , ppm/°C	129

Extractable Ionic Content, ppm:

Chloride (Cl ⁻)	2.2
Sodium (Na ⁺)	0.4
DMA Modulus @ 25°C, GPa	7.3
Weight Loss @ 100°C, %	0.1

Electrical Properties

Volume Resistivity @ 25 °C, ohm-cm	2×10 ⁻³
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TYPICAL PERFORMANCE OF CURED MATERIAL

Die Shear Strength @ 25°C:

2 X 2 mm Si die, kg-f :	
on Ag LF	16.0
on Cu LF	17.7
on Ni LF	8.8

GENERAL INFORMATION

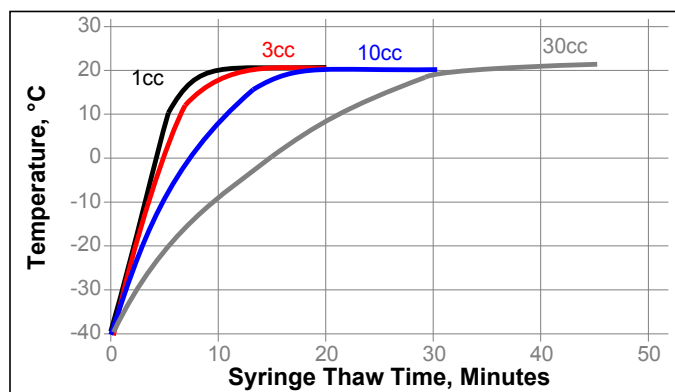
For safe handling information on this product, consult the Safety Data Sheet, (SDS).

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.

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, 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.

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

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

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

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

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Reference 1

Americas
+1.888.943.6535

Europe
+32.1457.5611

Asia
+86.21.3898.4800

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