

LOCTITE® ABLESTIK ABP 2037

January 2024

PRODUCT DESCRIPTION

LOCTITE® ABLESTIK ABP 2037 provides the following product characteristics:

Technology	Epoxy
Appearance	Silver paste
Filler type	Silver
Cure	Heat cure
Application	Electronic material, Semiconductor Die Attach Paste
Product benefits	- Electrically conductive - Controlled particle size - Low temperature cure - Good adhesion - Good dispense performance

LOCTITE® ABLESTIK ABP 2037 electrically conductive adhesive is designed as a Pb-free alternative to solder. It cures at low temperatures for good stress control in package applications.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity, Brookfield CP51, 25°C	
Speed 5 rpm	27,000
Thixotropic index	4.6
Work life @ 25°C, hours	48
Shelf life @ -40°C, (from date of manufacture), days	365

TYPICAL CURING PERFORMANCE

Cure schedule

60 min @ 80°C

The above cure profiles are guideline recommendations. These 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

Sample tested by DMA, Ramp Rate 5°C/min @ 1 Hz

Physical properties

Glass transition temperature, (Tg) by TMA, °C	115
DMA Modulus @ 25°C, GPa	7.7

Electrical properties

Volume resistivity, ohm-cm	4.7×10^{-03}
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TYPICAL PERFORMANCE OF CURED MATERIAL

Miscellaneous

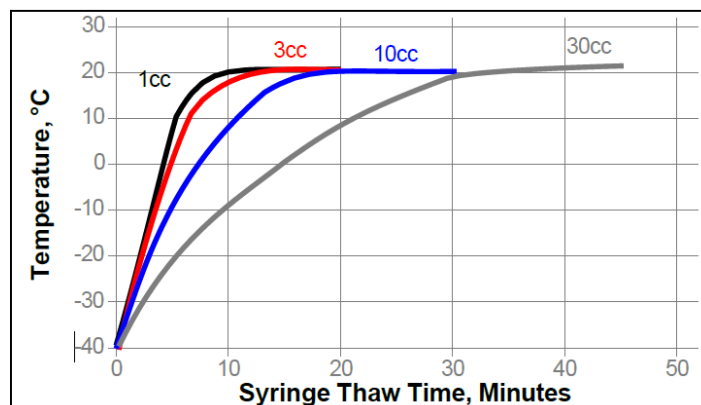
Pillar strength, to Ni (φ2mm), N	14
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GENERAL INFORMATION

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

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 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.

Storage

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

Optimal storage: $\leq -40^{\circ}\text{C}$

Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel 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 the specifications of this product.

Conversions

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

Disclaimer

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