



LOCTITE® ABLESTIK ABP 8072

October 2025

PRODUCT DESCRIPTION

LOCTITE® ABLESTIK ABP 8072 provides the following product characteristics:

Technology	BMI / Acrylate
Appearance	Silver paste
Filler type	Silver
Product benefits	• No intentionally added toluene • Excellent thermal conductivity • High electrical conductivity • Hydrophobic • Excellent adhesion strength • Low moisture absorption
Cure	Heat cure
Application	Heat Path Slug Attach
Target substrates	Au, Ni plated Cu, PPF
Typical package application	HBPOP, FOPOP, Side by Side structural Mobilie AP

LOCTITE® ABLESTIK ABP 8072 is a conductive die-attach adhesive for heat path slug attach application. It is formulated without intentionally added toluene. It has similar properties to QMI 529HT for high reliability packaging applications.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity, Brookfield CP51, 25°C, mPa.s (cP)	
Speed 5 rpm	23,500
Thixotropic index, (0.5/5 rpm)	4.2
Density,	4.0
Work life @ 25°C, hours	24
Shelf life @ -40°C, days	365

TYPICAL CURING PERFORMANCE

Recommended cure schedule

30 minutes ramp from 25°C to 175°C, hold 60 minutes @ 175°C

Weight loss on cure

Weight loss on cure, %	2.93
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The above cure profile(s) are guideline recommendations. These 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

Sample cured 30 minutes ramp from 25°C to 175°C, hold 60 minutes @ 175°C

Coefficient of thermal expansion, TMA (ppm/°C):	
Below Tg	48
Above Tg	130
Glass transition temperature, DMA, °C	22
Tensile modulus, MPa	
@25°C	3,900
@250°C	280
Extractable ionic content, @100°C	
Sodium (Na+)	<20
Potassium (K+)	<20
Chloride (Cl-)	<20
Thermal conductivity, (W/m-K)	6.6
Moisture absorption (%)	0.06

Electrical properties

Sample cured 30 minutes ramp from 25°C to 175°C, hold 60 minutes @ 175°C

Volume resistivity, ohms-cm	1 x 10 ⁻⁴
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Adhesion properties

Sample cured 30 minutes ramp from 25°C to 175°C, hold 60 minutes @ 175°C

Die shear strength	
2x2 mm die to Ni plated Cu, kg-f	
@ 25°C	5.0
@ 260°C	1.3

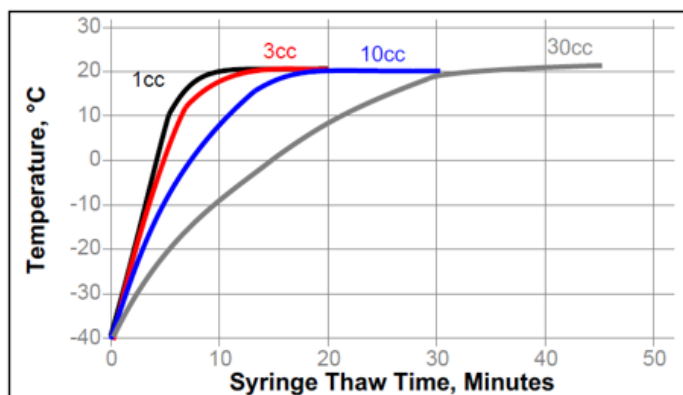
GENERAL INFORMATION

Please consult the Safety Data Sheet (SDS) for safe handling information of 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. Thaw times depend on the syringe size.
4. Consult handling guide for more information.
5. 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.
6. DO NOT re-freeze. Once thawed to 25°C, the adhesive should not be re-frozen.





Direction 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.

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 -45°C or greater than -35°C can adversely affect product properties.

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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Reference 1

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