

LOCTITE ABLESTIK 968-2

October 2014

PRODUCT DESCRIPTION

LOCTITE ABLESTIK 968-2 provides the following product characteristics:

Technology	Epoxy
Appearance	Blue paste
Cure	Heat cure
pH	5.5
Product Benefits	<ul style="list-style-type: none"> Electrically insulating Proprietary hybrid chemistry
Application	Die attach

LOCTITE ABLESTIK 968-2 die attach adhesive is designed for microelectronic chip bonding applications. This adhesive is ideal for application by syringe dispensing or screen printing.

METHOD 5011

LOCTITE ABLESTIK 968-2 meets the supplier requirements of Method 5011.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity @ 25 °C, mPa·s (cP)	45,000
Work Life @ 25°C, days	4
Storage Life (from date of manufacture):	
@ 5°C, days	91
@ -10°C, days	182
@ -40°C, days	365
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE

Cure Schedule

2 hours @ 150°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

Coefficient of Thermal Expansion :	
Below Tg, ppm/°C	35
Above Tg, ppm/°C	100
Glass Transition Temperature (Tg), °C	139
Thermal Conductivity @ 121°C, W/(m·K)	0.865
Extractable Ionic Content, ppm:	
Chloride (Cl-)	215
Sodium (Na+)	15
Potassium (K+)	30
Water Extract Conductivity, µmhos/cm	24
Weight Loss @ 300°C, %	0.12

Electrical Properties

Volume Resistivity, ohm-cm	4×10 ¹⁴
Dielectric Constant / Dissipation Factor:	
@ 1kHz	4.17/0.0049

TYPICAL PERFORMANCE OF CURED MATERIAL

Miscellaneous

Die Shear Strength :	
80 mil ² (2.03 mm ²) die:	
Au to Au @ 25°C	N/mm ² 37.2 (psi) (5,400)

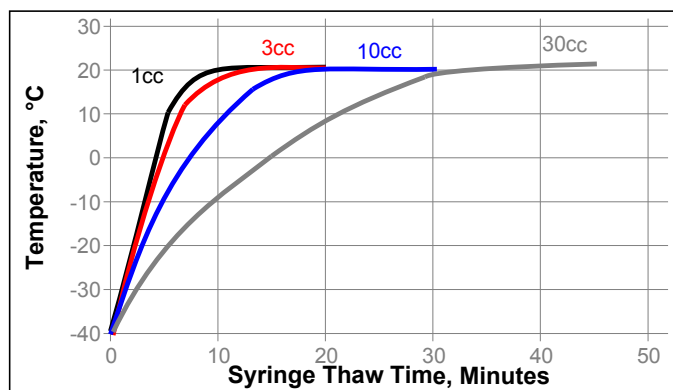
GENERAL INFORMATION

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be used with chlorine or other strong oxidizing materials.

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. Refer to the Syringe Thaw time chart for the thaw time recommendation.
4. DO NOT open the container before contents reach 22°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 to 22°C, the adhesive should not be re-frozen.



DIRECTIONS FOR USE

1. Apply adhesive as required.
2. Assemble bonds.
3. Cure at one of the recommended cure schedules.

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

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

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.

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