

LOCTITE ABLESTIK ABP 7000C

November 2014

PRODUCT DESCRIPTION

LOCTITE ABLESTIK ABP 7000C provides the following product characteristics:

Technology	Epoxy
Appearance	Translucent
Product Benefits	• One component • No yellowing • Long work life • Excellent adhesion • Non-conductive
Cure	Heat cure
Application	Die attach
Typical Package Application	GaN LED's

LOCTITE ABLESTIK ABP 7000C dielectric adhesive offers excellent adhesion strength, especially at wire bonding process temperature to minimize defect rate at assembly. It features strong heat / UV resistance and can be applied by pin transfer, stamping and dispensing.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity, Cone & Plate, mPa·s (cP):

@ 25°C Speed 10 rpm	12,000
Specific Gravity	1.17
Work Life @ 25°C, days	5
Shelf Life @ -20°C, months	6
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE

Cure Schedule

1 hour @ 170°C

Time shown does not include ramp-up time to cure temperature.

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

Moisture Absorption @ Saturation, wt.%, 60°C/90% RH exposure for 24 hrs	0.6
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TYPICAL PERFORMANCE OF CURED MATERIAL

Sample cured 1 hour @ 170°C

Die Shear Strength :

1.25 x 1.25 mm Si die on Ag plated Cu LF, N:	
@ 25°C	125
@ 160°C	49

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. Syringes should thaw a minimum of 90 minutes.
3. After removing from the freezer, set the syringes to stand vertically while thawing.
4. DO NOT re-freeze. Once thawed, the adhesive should not be re-frozen.

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 : -20 °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 written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

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