

LOCTITE ABLESTIK ABP 6892

June 2016

PRODUCT DESCRIPTION

LOCTITE ABLESTIK ABP 6892 provides the following product characteristics:

Technology	BMI/Acrylate
Appearance	Clear paste
Product Benefits	<ul style="list-style-type: none"> • Non-conductive • Halogen free • Low modulus • Low viscosity • Low outgassing • Low moisture absorption • Good adhesion to a variety of substrates
Cure	Heat cure
Application	Die attach

LOCTITE ABLESTIK ABP 6892 non-conductive die attach paste is designed for applications requiring low stress and robust mechanical properties. A package using this material will have a greater resistance to delamination and overall improvement in package reliability.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Thixotropic Index	1.75
Viscosity, Brookfield, 25 °C, mPa·s (cP):	
Speed 0.5 rpm	4,100
Work Life @ 25°C, hours	24
Shelf Life @ -40°C (from date of manufacture), days	365

TYPICAL CURING PERFORMANCE

Cure Schedule

- 15 minutes ramp to 80°C, hold 60 minutes or
- 15 minutes ramp to 130°C, hold 30 minutes

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 (Tg) by TMA, °C	-24.6
Coefficient of Thermal Expansion :	
Below Tg, ppm/°C	111.4
Above Tg, ppm/°C	190.6
Moisture Absorption, 85°C/85% RH, %	0.44
Outgassing, during cure, %	0.7

Tensile Modulus, DMTA :

@ -65°C	N/mm ² 1,912 (psi) (277,312)
@ 25°C	N/mm ² 176 (psi) (25,526)
@ 100°C	N/mm ² 28 (psi) (4,061)
@ 150°C	N/mm ² 24 (psi) (3,480)
@ 250°C	N/mm ² 34 (psi) (4,931)

TYPICAL PERFORMANCE OF CURED MATERIAL

Miscellaneous

Die Shear Strength:

3 x 3 mm, Si die on Glass, kg-f/die:

@ 25 °C	13
@ 80 °C	6

PERFORMANCE AND RELIABILITY DATA

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 adhesive 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.

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

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

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$

$\text{kV/mm} \times 25.4 = \text{V/mil}$

$\text{mm} / 25.4 = \text{inches}$

$\text{N} \times 0.225 = \text{lb}$

$\text{N/mm} \times 5.71 = \text{lb/in}$

$\text{psi} \times 145 = \text{N/mm}^2$

$\text{MPa} = \text{N/mm}^2$

$\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$

$\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$

$\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$

$\text{mPa}\cdot\text{s} = \text{cP}$

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