

LOCTITE ABLESTIK ABP 8430AA

April 2019

PRODUCT DESCRIPTION

LOCTITE ABLESTIK ABP 8430AA provides the following product characteristics:

Technology	Epoxy
Appearance	Black
Cure	Heat cure
Product Benefits	<ul style="list-style-type: none">• Non-conductive• Excellent resin bleed out (RBO) performance• Fast cure• Black pigmentation for blocking stray light• Good adhesion to Glass and PA substrates• Good reliability performance
Application	Die attach
Key Substrates	Most plastics and Glass
Typical Applications	Cap, diffuser attach in wirebond packages

LOCTITE ABLESTIK ABP 8430AA non-conductive adhesive is designed for cap and lid attach applications in wirebond packages. This adhesive can be fast cured using directed heat energy or hot plate curing techniques.

If used over an active die face, an adhesive bondline thickness of >1 mil must be maintained to prevent die scarring.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Thixotropic Index (0.5/5 rpm)	5.3
Viscosity, Brookfield DV-II, CP51, 25 °C, mPa·s (cP):	
Speed 5 rpm	14,100
Pot Life @ 25°C, hours	24
Shelf Life @ -20°C (from date of manufacture), days	180

TYPICAL CURING PERFORMANCE**Recommended Cure Schedule**

60 minutes @ 120°C

The above cure profiles are guideline recommendations. 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**

Glass Transition Temperature (Tg) by TMA, °C	75
Coefficient of Thermal Expansion, :	
Below Tg, ppm/°C	50
Above Tg, ppm/°C	150
Optical Density @ 350 to 800 nm, 200 umt, UV-Vis spectroscopy	>4.0

TYPICAL PERFORMANCE OF CURED MATERIAL**Miscellaneous**

Die Shear Strength	
2 x 2 mm Si die, MPa:	
on Alkali doped glass	30

GENERAL INFORMATION

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

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.

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 -40°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 : -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 Henkel Representative.

Conversions

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

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