

# Ablestik

## ABLEBOND 868-7U

July 2010

### PRODUCT DESCRIPTION

ABLEBOND 868-7U provides the following product characteristics:

|                         |                                                                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>Technology</b>       | Epoxy                                                                                                                             |
| <b>Appearance</b>       | Amber                                                                                                                             |
| <b>Cure</b>             | Heat cure                                                                                                                         |
| <b>Product Benefits</b> | <ul style="list-style-type: none"> <li>• Flexible</li> <li>• Thixotropic</li> <li>• Non-sag</li> <li>• Strong adhesion</li> </ul> |
| <b>Application</b>      | Die attach                                                                                                                        |

ABLEBOND 868-7U epoxy adhesive is an unfilled version of ABLEBOND 868-7 adhesive.

### TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity, Cone & Plate, @ 25 °C, mPa·s (cP) 10,000

Work Life @ 25°C, minutes 40

Shelf Life @ -40°C, year 1

Flash Point - See MSDS

### TYPICAL CURING PERFORMANCE

#### Recommended Curing Conditions

1 hour @ 75°C

#### Alternative Curing Conditions

15 minutes @ 125°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 PERFORMANCE OF CURED MATERIAL

Lap Shear Strength:

|                 |                   |         |
|-----------------|-------------------|---------|
| Al to Al @ 25°C | N/mm <sup>2</sup> | 26.21   |
|                 | (psi)             | (3,800) |

### 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. 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 be immediately 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. Apply enough adhesive to achieve a 25 to 50 µm wet bondline thickness, dispensed with approximately 25 to 50 % filleting on all sides of the die.
5. Alternate dispense amounts may be used depending on the application requirements.
6. Star or crossed shaped dispense patterns will yield fewer bondline voids than the matrix style of dispense pattern.

### 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

(°C x 1.8) + 32 = °F

kV/mm x 25.4 = V/mil

mm / 25.4 = inches

N x 0.225 = lb

N/mm x 5.71 = lb/in

N/mm<sup>2</sup> x 145 = psi

MPa x 145 = psi

N·m x 8.851 = lb·in

N·m x 0.738 = lb·ft

N·mm x 0.142 = oz·in

mPa·s = cP

**Note**

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Reference 0.0