

# LOCTITE ABLESTIK 566

April 2014

## PRODUCT DESCRIPTION

LOCTITE ABLESTIK 566 provides the following product characteristics:

|                          |                                                                                                                           |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Technology</b>        | Epoxy Film                                                                                                                |
| <b>Appearance</b>        | white                                                                                                                     |
| <b>Cure</b>              | Heat cure                                                                                                                 |
| <b>Product Benefits</b>  | <ul style="list-style-type: none"> <li>Electrically Insulating</li> <li>Low temperature cure</li> <li>Flexible</li> </ul> |
| <b>Application</b>       | Assembly                                                                                                                  |
| <b>Carrier Type</b>      | Glass fabric                                                                                                              |
| <b>Carrier Thickness</b> | 1mil                                                                                                                      |

LOCTITE ABLESTIK 566 is designed for bonding materials with mismatched coefficients of thermal expansion. This material is the low temperature curing version of LOCTITE ABLESTIK 561 adhesive.

## TYPICAL PROPERTIES OF UNCURED MATERIAL

|                                                     |     |
|-----------------------------------------------------|-----|
| Work Life @ 25°C, days                              | 3   |
| Shelf Life @ -40°C (from date of manufacture), days | 365 |

## TYPICAL CURING PERFORMANCE

### Cure Schedule

3 hours @ 90°C

### Alternative Cure Schedule

2 hours @ 100°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

|                                                    |    |
|----------------------------------------------------|----|
| Glass Transition Temperature (T <sub>g</sub> ), °C | 45 |
|----------------------------------------------------|----|

## TYPICAL PERFORMANCE OF CURED MATERIAL

### Shear Strength

Lap Shear Strength @ 25°C:

|          |                   |         |
|----------|-------------------|---------|
| Al to Al | N/mm <sup>2</sup> | 12      |
|          | (psi)             | (1,800) |

## GENERAL INFORMATION

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

## THAWING:

- Allow container to reach room temperature before use.
- 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.
- DO NOT re-freeze. Once thawed, the adhesive should not be re-frozen.

## DIRECTIONS FOR USE

- Place precut adhesive film between clean surfaces to be bonded.
- Assemble components.
- Apply spring loaded clamp or dead weight to provide continuous pressure of at least 5 to 10 psi during cure cycle.
- Place assembly in a preheated oven and cure at the recommended cure schedule.

## AVAILABILITY

- LOCTITE ABLESTIK 566 adhesive is available in sheet stock or die cut preforms.
- LOCTITE ABLESTIK 566 adhesive can be die cut to customer specifications.
- Tolerances are as close as ±0.005inch in length or width and ±0.001inch in thickness.

## 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 = N/mm<sup>2</sup>  
 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

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