

LOCTITE ABLESTIK 570K

April 2014

PRODUCT DESCRIPTION

LOCTITE ABLESTIK 570K provides the following product characteristics:

Technology	Epoxy Film
Appearance	Brown
Cure	Heat cure
Product Benefits	<ul style="list-style-type: none"> Low outgassing High purity
Application	Adhesive Film
Carrier Type	Glass fabric

LOCTITE ABLESTIK 570K adhesive film is a high purity epoxy designed for hybrid substrate attach. This adhesive exhibits significantly better adhesion to gold surfaces, resulting in improved performance during constant acceleration testing compared with similar high purity materials.

MIL-STD-883C

LOCTITE ABLESTIK 570K meets the requirements of MIL-STD-883C, Method 5011.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Work Life @ 25°C, days	14
Shelf Life:	
@ 5°C, days	91
@ -10°C, days	183
@ -40°C, days	365

TYPICAL CURING PERFORMANCE

Cure Schedule

3 hours @ 150°C

Alternative Cure Schedule

1.5 hours @ 170°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

Coefficient of Thermal Expansion, TMA:	
Below Tg, ppm/°C	50
Above Tg, ppm/°C	35
Glass Transition Temperature (Tg), °C	135
Weight Loss @ 300°C, %	0.3
Thermal Conductivity @ 121°C, W/(m-K)	0.7
pH	7.0
Water Extract Conductivity, µmhos/cm	15

Extractable Ionic Content, ppm:

Chloride (Cl-)	15
Sodium (Na+)	50
Potassium (K+)	ND

Electrical Properties

Volume Resistivity, ohm-cm	6×10 ¹⁴
Dielectric Constant/Dissipation Factor @ 1KHz	3.6/0.008

TYPICAL PERFORMANCE OF CURED MATERIAL

Shear Strength

Lap Shear Strength	
Al to Al @ 25°C	N/mm ² 19 (psi) (2,800)
Au to Au @ 25°C	N/mm ² 13 (psi) (2,000)

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. 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.
3. DO NOT re-freeze. Once thawed, the adhesive should not be re-frozen.

DIRECTIONS FOR USE

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

AVAILABILITY

1. LOCTITE ABLESTIK 570K adhesive is available in sheet stock or die cut preforms.
2. LOCTITE ABLESTIK 570K adhesive can be die cut to customer specifications.

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

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

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

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

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

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

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

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

$\text{MPa} \times 145 = \text{psi}$

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

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

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

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

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