

LOCTITE ABLESTIK ECF 568

April 2014

PRODUCT DESCRIPTION

LOCTITE ABLESTIK ECF 568 provides the following product characteristics:

Technology	Epoxy Film
Appearance	Silver
Cure	Heat cure
Product Benefits	• High purity • Electrically conductive • Low temperature cure • Adheres well to a variety of substrates
Application	Assembly
Carrier Type	Glass fabric
Carrier Thickness	1 mil
Typical Package Application	Substrate attach

LOCTITE ABLESTIK ECF 568 high purity adhesive is designed for substrate attach. This material is a low temperature cure version of ABLEFILM 550 adhesive.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Work Life @ 25°C, hours	24
Shelf Life @ -40°C (from date of manufacture), days	365

TYPICAL CURING PERFORMANCE

Cure Schedule

2 hours @ 95°C

Alternate Cure Schedule

4 hours @ 75°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	65
Above Tg, ppm/°C	400
Glass Transition Temperature (Tg) by TMA, °C	113

Electrical Properties

Electrical Resistance Measured through gold joints, ohm/ 0.002 0.5 sq. in.

TYPICAL PERFORMANCE OF CURED MATERIAL

Lap Shear Strength :

Substrate	@25°C
Al to Al	5100 psi
Au to Au	3500 psi

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. 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 2 to 10 psi during cure cycle.
4. This adhesive is not recommended for use on bare aluminum surfaces. Poor ohmic contact will result.

AVAILABILITY

1. LOCTITE ABLESTIK ECF 568 adhesive is available in sheet stock or die cut preforms.
2. LOCTITE ABLESTIK ECF 568 adhesive can be die cut to customer specifications.
3. 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 $(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$ $\text{kV/mm} \times 25.4 = \text{V/mil}$ $\text{mm} / 25.4 = \text{inches}$ $\text{N} \times 0.225 = \text{lb}$ $\text{N/mm} \times 5.71 = \text{lb/in}$ $\text{psi} \times 145 = \text{N/mm}^2$ $\text{MPa} = \text{N/mm}^2$ $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$ $\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$ $\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$ $\text{mPa}\cdot\text{s} = \text{cP}$ **Disclaimer****Note:**

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