

LOCTITE ABLESTIK EMI 3620FA

August 2020

PRODUCT DESCRIPTION

LOCTITE ABLESTIK EMI 3620FA provides the following product characteristics:

Technology	Epoxy
Appearance	Silver liquid
Cure	Heat cure
Application	Semiconductor, Semi-Shielding
Product Benefits	<ul style="list-style-type: none">• Conductive• Solvent-free• Low viscosity• Low thixotropy• Low outgassing• Good void performance• Compatible for use with G30 nozzle• High reliability• Easily applied by dispensing or jetting
Typical Package Application(s)	SIP or Newly designed advanced packaging

LOCTITE ABLESTIK EMI 3620FA is an electrically conductive adhesive designed for hole, gap or trench filling and for compartment EMI shielding. A package or device manufactured with LOCTITE ABLESTIK EMI 3620FA will exhibit good resistance to delamination and "popcorning" after multiple reflow temperature exposures during reliability testing.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity, Brookfield CP51, 25 °C, mPa·s (cP):	
Speed 5 rpm	5,000
Thixotropic Index (0.5/5 rpm)	1.7
Work Life @ 25°C, hours	8
Shelf Life @ -40°C, days	365
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE

Recommended Curing Conditions

30 mins ramp to 175°C, hold for 60 mins @ 175 °C

Weight Loss

Weight Loss on Cure, TGA, % 4.0

Alternate Cure Schedule

30 mins ramp to 150°C; hold 60 mins @ 150 °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 (Tg) by DMA, °C	135
Modulus :	
@ 25°C	N/mm ² 4,173 (psi) (605,242)
@ 100°C	N/mm ² 1,395 (psi) (202,327)
@ 150°C	N/mm ² 510 (psi) (73,969)

Electrical Properties

Volume Resistivity, ohm-cm	0.00009
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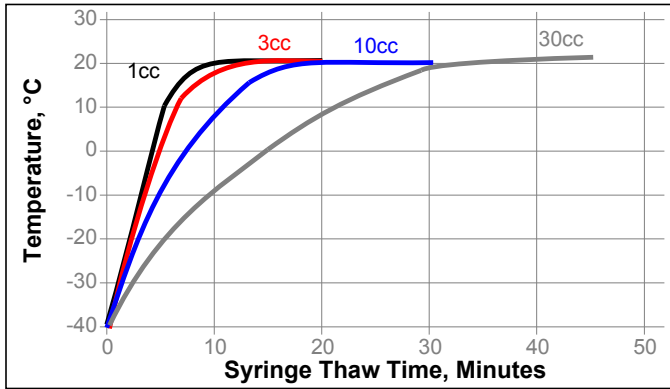
GENERAL INFORMATION

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

THAWING:

1. Allow container to reach room temperature before use.
2. After removing from the freezer, set the syringes to stand vertically while thawing.
3. Refer to the Syringe Thaw time chart for the thaw time recommendation.
4. DO NOT open the container before contents reach 25°C temperature. Any moisture that collects on the warmed up container should be removed prior to opening the container.
5. DO NOT re-freeze. Once thawed to 25°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.
4. Filler-resin separation may occur if the adhesive is left out at 25°C, beyond the recommended work life.
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.
7. LOCTITE ABLESTIK EMI 3620FA, while still in the original syringe packaging, may show a slight color differential at the tip and piston side. Please note that this is a visual difference only and has no impact to the adhesive performance.

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

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.

CLEAN-UP

The material can be cleaned with esters (butylacetate, ethylacetate) or ketones (MEK).

Disclaimer

Note:

The information provided in this Technical Data Sheet (TDS) including the

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Conversions

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

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

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

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

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

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

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

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

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

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

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

Reference 3