

LOCTITE ABLESTIK CA 3556HF

June 2016

PRODUCT DESCRIPTION

LOCTITE ABLESTIK CA 3556HF provides the following product characteristics:

Technology	Acrylate
Appearance	Silver
Filler Type	Silver
Product Benefits	<ul style="list-style-type: none"> • One component • Snap curable • Fast cure • Low cure temperature • Excellent flexibility • Good adhesion • Electrically conductive • Low contact resistance
Cure	Heat cure
Application	Electrically Conductive Adhesive
Surfaces	Noble metals
Operating Temperature	-45 to 125 °C

LOCTITE ABLESTIK CA 3556HF is an electrically conductive adhesive designed for applications that require a very fast cure at low temperatures. It is ideally suited for high throughput production processes and applications where high peel strength is desired.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity at 25°C, mPa·s (cP) (Plate 2 cm at 15 s ⁻¹)	31,500
Specific Gravity	4.5
Pot Life @ 25°C, (50% increase in viscosity), days	2
Shelf Life @ -25 to -18 °C, days	183
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE

Cure Schedule

- 120 seconds @ 110°C or
- <15 seconds @ 130°C or
- <10 seconds @ 150°C

LOCTITE ABLESTIK CA 3556HF may be cured using a thermode unit or any other efficient method of rapid heat transfer.

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

Cured for 10 minutes @ 120 °C box oven

Physical Properties

Glass Transition Temperature, °C	-30
Storage Modulus, 25°C, MPa	650

Electrical Properties

Volume Resistivity, Ω·cm	0.0025
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TYPICAL PERFORMANCE OF CURED MATERIAL

Tensile strength, MPa:	
Al to Al, cure 10 minutes @ 120°C	8

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. Syringes should thaw a minimum of 1 hour.

DIRECTIONS FOR USE

1. The rheology of this product makes it suitable for use in high speed dispense and print applications

Depending on the application, work life could be less than 2 days.

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 : -25 to -18 °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 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

Reference **N/A**

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