

LOCTITE ABLESTIK CA 3150

June 2010

PRODUCT DESCRIPTION

LOCTITE ABLESTIK CA 3150 provides the following product characteristics:

Technology	Acrylate
Appearance	Silver Gray
Filler Type	Silver
Product Benefits	<ul style="list-style-type: none"> • Isotropic • Electrically conductive • One component • Spot curable • Low cure temperature • Long work life • Superior stability • Optimized rheology • Low viscosity • Low CTE • High thixotropy • Exceptional thermo-mechanical junction reliability
Cure	Heat cure
Application	Electrically Conductive Adhesive
Surfaces	Copper, Glass, Aluminum and Silver
Substrates	PET and Paper
Typical Package Application	SMD component attach

LOCTITE ABLESTIK CA 3150 adhesive is designed to electrically interconnect die straps, batteries, and other surface mount components. It is suitable for reel-to-reel production lines and high speed jetting or printing applications and allows exceptional fine pitch resolution. The long work life minimizes product waste and clean-up time, providing increased production efficiency.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity at 15 S ⁻¹ , mPa·s (cP)	13,000
Rheometer	
Shear Thinning Index (Rheometer)	6
Work Life @ 24°C, days	2
Shelf Life @ -20°C, days	183
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE

Cure Schedule

10 seconds @ 130°C at bondline

NOTE: LOCTITE ABLESTIK CA 3150 may be cured using a die bonder or any other efficient method of rapid heat transfer. No pressure is required during cure. No post cure required when curing in a convection oven.

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

3°C/ minutes, 1Hz frequency, 40 μ amplitude

Physical Properties :

Glass Transition Temperature, Tan Δ Max, °C	55
Storage Modulus, DMA , MPa	6,600

TYPICAL PERFORMANCE OF CURED MATERIAL

Die Shear Strength :

80 x 80 milSilicon die to Aluminum, Kg	2.5
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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.

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 : -20 °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

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$
 $\text{kV/mm} \times 25.4 = \text{V/mil}$
 $\text{mm} / 25.4 = \text{inches}$
 $\text{N} \times 0.225 = \text{lb}$
 $\text{N/mm} \times 5.71 = \text{lb/in}$
 $\text{N/mm}^2 \times 145 = \text{psi}$
 $\text{MPa} = \text{N/mm}^2$
 $\text{MPa} \times 145 = \text{psi}$
 $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$
 $\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$
 $\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$
 $\text{mPa}\cdot\text{s} = \text{cP}$

Disclaimer

Note:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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Reference 0.3