

LOCTITE ABLESTIK C850-6L

October 2020

PRODUCT DESCRIPTION

LOCTITE ABLESTIK C850-6L provides the following product characteristics:

Technology	Epoxy
Appearance	Silver
Filler Type	Silver
Product Benefits	<ul style="list-style-type: none"> • One component • Electrically conductive • Low cure temperature • High adhesion • Long shelf life
Cure	Heat cure
Typical Package Application(s)	LED attach and Die attach
Application	Electrically Conductive Adhesive

LOCTITE ABLESTIK C850-6L electrically conductive adhesive is designed for LED die bonding and other die attach applications.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity Brookfield, mPa·s (cP) 5 rpm, # TE	60,000
Specific Gravity @ 25°C	3.2
Shelf Life @ -20 to 0°C, days	180
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE Cure Schedule

1 hour @ 120°C or
30 minutes @ 150°C

The above cure profiles are guideline recommendations. Cure conditions (time and temperature) may vary based on customers' experience and specific 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 TMA, °C	130
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Electrical Properties:

Volume Resistivity, ohms-cm	0.0006
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TYPICAL PERFORMANCE OF CURED MATERIAL

Die Shear Strength:

1.25 x 1.25 mm die

Cure Temp, °C	Cure Time, Minutes	Measure Temp, °C	DSS, Kg
120	60	25	7.8
150	20	25	6.7
150	40	25	10.0

2.5 x 2.5 mm die

Cure Temp, °C	Cure Time, Minutes	Measure Temp, °C	DSS, Kg
120	60	200	5.6
150	20	200	5.8

GENERAL INFORMATION

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

Storage

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

Optimal Storage : -20 to 0 °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.

Conversions

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

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

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

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

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

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

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

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

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

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

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

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