

LOCTITE ABLESTIK CT 5047-2

October 2014

PRODUCT DESCRIPTION

LOCTITE ABLESTIK CT 5047-2 provides the following product characteristics:

Technology	Epoxy
Technology (Part B)	Amine
Appearance (Comp. A)	Silver paste
Appearance (Comp. B)	Amber liquid
Components	Two component - requires mixing
Mixing Ratio, by weight	100 : 6
Component A:	
Component B	
Product Benefits	<ul style="list-style-type: none"> Electrically conductive Ease of use Good dispense behavior Room temperature cure High bond strength
Operating Temperature	-40 to +130°C
Cure	Heat cure and Room temperature
Application	Assembly

LOCTITE ABLESTIK CT 5047-2 adhesive is designed to make electrical connections where hot soldering is impractical or to make electrical connections to conductive plastics at locations which cannot be subjected to high temperatures.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Part A Properties *Part A*

Density, g/cm ³	3.48
Shelf Life @ 25°C (from date of manufacture), months	24
Flash Point - See SDS	

Part B Properties *Part B*

Density, g/cm ³	1.06
Shelf Life @ 25°C (from date of manufacture), months	24
Flash Point - See SDS	

Mixed Properties

Density, g/cm ³	3.34
Work Life, 100 grams @ 25°C, hour	1
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE

Cure Schedule

24hours @ 25°C
2hours @ 65°C
1hour @ 100°C

For optimum properties, cure at 65°C or higher.

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

Hardness, Shore D	82
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Electrical Properties

Volume Resistivity, ohm-cm:	
cured 2 hours @ 65°C	0.002
cured 24 hours @ 25°C	0.02

Outgassing Properties

Outgassing, per NASA Reference Publication 1124, %:	
Sample cured 24 hours @ 25°C, plus 2 hours @ 65°C, plus 1 hour @ 100°C	
TML, %	0.39
CVCM, %	0.0

TYPICAL PERFORMANCE OF CURED MATERIAL

Tensile Lap Shear Strength, @ 25°C:

Aluminum to aluminum	N/mm ²	6.9
	(psi)	(1,000)

GENERAL INFORMATION

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

DIRECTIONS FOR USE

1. Complete cleaning of the substrates should be performed to remove contamination such as oxide layers, dust, moisture, salt and oils which can cause poor adhesion or corrosion in a bonded part.
2. Some filler settling is common during shipping and storage. For this reason, it is recommended that the contents of the shipping container be thoroughly mixed prior to use.
3. Accurately weigh resin and hardener into a clean container in the recommended ratio. Weighing apparatus having an accuracy in proportion to the amounts being weighed should be used.
4. Blend components by hand, using a kneading motion, for 2 to 3 minutes and scrape the bottom and sides of the mixing container frequently to produce a uniform mixture.
5. Apply adhesive to all surfaces to be bonded and join together.
6. In most applications only contact pressure is required.

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 in original, tightly covered containers in clean, dry areas. Storage information may be indicated on the product container labeling.

Optimal Storage : 25 °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

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

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Reference 0.1