

LOCTITE ABLESTIK 526W01

August 2012

PRODUCT DESCRIPTION

LOCTITE ABLESTIK 526W01 provides the following product characteristics:

Technology	Epoxy
Color	Black
Cure	Heat cure
Product Benefits	<ul style="list-style-type: none"> • One component • Controlled flow • Low CTE • Low stress • Low cure shrinkage • Humidity resistant
Operating Temperature	-50 to 260 °C
Application	Assembly

LOCTITE ABLESTIK 526W01 is designed to protect wire bonds and bare die. This material has also been tested to withstand multiple exposures to 260 °C reflow.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity Brookfield CP52, 1 rpm @ 25°C, Initial	400,000
Flow Rate, 0.6grams @ 120°C, mm	15.5
Specific Gravity, cured	1.8
Pot life @ 25°C, 0.6 gram flow test, hours	24
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE

Cure Schedule

45 minutes @ 150°C or
30 minutes @ 100 to 120°C plus

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 :

Coefficient of Thermal Expansion TMA, ppm/°C:	
Below Tg (-40 to 40°C)	25
Above Tg (150 to 200°C)	75
Glass Transition Temperature (Tg) by TMA, °C	125

Extractable Ionic Content, ppm:

Ammonia (NH ₄ ⁺)	<10
Bromide (Br)	<10
Chloride (Cl ⁻)	<25
Fluoride (F ⁻)	<10
Phosphate	<10
Potassium (K ⁺)	<10
Sodium (Na ⁺)	<10
Sulfate	<10

Hardness, Shore D @ 25°C

92

TYPICAL PERFORMANCE OF CURED MATERIAL

Die Shear Strength :

2 X 2 mm die, Kg,
45 minutes @ 150°C

Substrate	
Ceramic	10

GENERAL INFORMATION

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

DIRECTIONS FOR USE

1. Carefully clean and dry all surfaces to be bonded.
2. Bring LOCTITE ABLESTIK 526W01 to room temperature before using.
3. Apply adhesive to the assembly and cure according to recommended cure conditions.
4. Some separation of components 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.
5. Some ingredients in this formulation provided in BIPAX, TRA-PAX and bulk packaging may crystallize when subjected to low temperature storage. A gentle warming cycle of 125°C for 30 minutes prior to mixing components may be necessary. Crystallized epoxy components do not react as well as liquid components and should be redissolved prior to use for best results.

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

The expiration date for pre-mixed and frozen materials is based upon dry storage conditions at or below the temperature indicated on each package. Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

Optimal Storage : 27 °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. Contents may separate during storage. Resin or hardener in bulk containers (e.g., quarts, gallons) should be thoroughly mixed prior to combining them to obtain all the benefits of the properties designed into the formulation.

Conversions

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

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