

LOCTITE ABLESTIK 84-1LMISR4-S25

October 2017

PRODUCT DESCRIPTION

LOCTITE ABLESTIK 84-1LMISR4-S25 provides the following product characteristics:

Technology	Epoxy
Appearance	Silver
Cure	Heat cure
pH	6.0
Product Benefits	<ul style="list-style-type: none"> Electrically conductive One component Low outgassing Low bleed Good adhesion
Application	Electrically Conductive Adhesive
Typical Package Application	Die attach and Component attach

LOCTITE ABLESTIK 84-1LMISR4-S25 electrically conductive die attach adhesive has been formulated for use in high throughput, automated die attach equipment. This material is a version of ABLEBOND 84-1LMISR4 that contains 25 µm silver spacers for bondline control.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Thixotropic Index (0.5/5 rpm)	5.6
Viscosity, Brookfield, 25 °C, mPa·s (cP)	9,500
Fineness, Hegemann, µm, Max	45
Density, g/cm³	3.8
Work Life, hours	18
Storage Life @ -40°C (from date of manufacture), year	1
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE

Cure Schedule

1hour @ 175°C

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 rec'd from Nabila Idrissi (Chemist)

Physical Properties :

Glass Transition Temperature, Tan δ, °C	140
Young's Modulus:	
@ 25°C	N/mm² 3,000 (psi) (435,113)

Electrical Properties:

Volume Resistivity, ohm-cm	5×10 ⁻⁵
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TYPICAL PERFORMANCE OF CURED MATERIAL rec'd from Nabila Idrissi (Chemist)

Shear Strength :

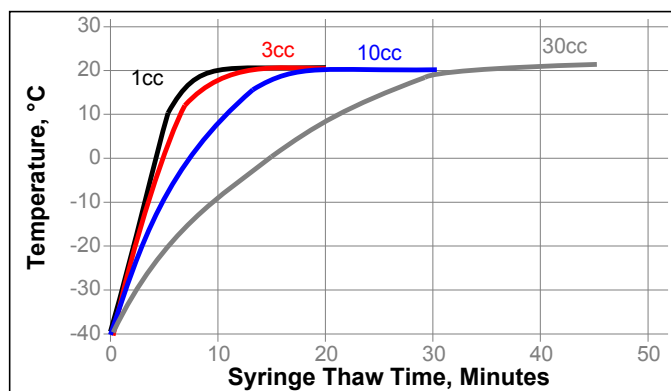
Tensile Lap Shear Strength	N/mm² 8 (psi) (1,160)
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GENERAL INFORMATION

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

THAWING:

1. Allow container to reach room temperature before use.
2. After removing from the freezer, set the syringes to stand vertically while thawing.
3. Refer to the Syringe Thaw time chart for the thaw time recommendation.
4. DO NOT open the container before contents reach 22°C temperature. Any moisture that collects on the thawed container should be removed prior to opening the container.
5. DO NOT re-freeze. Once thawed to 22°C, the adhesive should not be re-frozen.
6. Material is ready to use after 1 hour @ 25°C.



DIRECTIONS FOR USE

1. Thawed material should immediately be placed on dispense equipment for use.
2. If the adhesive is transferred to a final dispensing reservoir, care must be exercised to avoid entrapment of contaminants and/or air into the adhesive.
3. This material can be applied by dispensing.

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: -40°C. Storage below -40°C or greater than -20°C can adversely affect product properties.

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

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 0.1

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