

LOCTITE ABLESTIK 8601S25

November 2013

PRODUCT DESCRIPTION

LOCTITE ABLESTIK 8601S25 provides the following product characteristics:

Technology	Ероху
Appearance	Silver
Cure	Heat cure
Product Benefits	Snap curable
	Fast cure
	 Minimal resin bleed
	 1 mil bondline control
	 Electrically conductive
	 Improved JEDEC performance
	 Compatible for use with metal
	leadframe
	 Use for small to medium package sizes
	 Excellent dispensability, minimal tailing and stringing
Application	Die attach
Filler Type	Silver

LOCTITE ABLESTIK 8601S25 die attach adhesive has been formulated for use in high throughput die attach applications.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Thixotropic Index (0.5/5 rpm)	5.6
Viscosity, Brookfield CP51, 25 °C, mPa·s (cP):	
Speed 5 rpm	7,200
Work Life @ 25°C, hours	24
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE

Weight Loss on Cure

Recommended Cure Schedule

30 minute ramp to 175°C + 15 minutes @ 175°C

Recommended Snap Cure Schedule

8-Zone Oven

Temp per zone: 25°C, 135°C, 160°C, 200°C, 200°C, 200°C, 200°C, 200°C Total Time, seconds 60 N2 Preheat temp, °C 160

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

7		
Extractable Ionic Content, @ 100°C for 24 ho	ours, ppn	n:
Chloride (Cl-)		<1
Sodium (Na+)		1.3
Potassium (K+)		N/D
Tensile Modulus, DMTA:		
@ -65 °C	N/mm²	9,100
_	(psi)	(1,319,843)
@ 25 °C	N/mm²	7,000
	(psi)	(1,015,264)
@ 150 °C	N/mm²	_,
	(psi)	(290,075)
@ 200 °C	N/mm²	1,000
	(psi)	(145,037)
@ 250 °C	N/mm²	900
	(psi)	(130,534)

Electrical Properties

Volume Resistivity, ohm-cm 0.0001

TYPICAL PERFORMANCE OF CURED MATERIAL

Die Shear Strength:

2 X 2 mm Si die on Pd/Ni/Cu LF @ 25 °C, kg-f, Post Cure + PMB

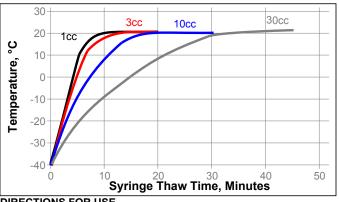
GENERAL INFORMATION

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

THAWING:

- 1. Allow container to reach room temperature before use.
- 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 25°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 25°C, the adhesive should not be re-frozen.





DIRECTIONS FOR USE

- 1. Thawed adhesive should immediately be placed on dispense equipment for use.
- If the adhesive is transferred to a final dispensing reservoir, care must be exercised to avoid entrapment of contaminants and/or
- 3. Adhesive must be completely used within the products recommended work life.
- Silver-resin separation may occur if the adhesive is left out at 25 °C beyond the recommended work life.
- Apply enough adhesive to achieve a 25 µm wet bondline thickness, dispensed with approximately 25 to 50 % filleting on all sides of the die.
- 6. Alternate dispense amounts may be used depending on the application requirements.
- 7. Star or crossed shaped dispense patterns will yield fewer bondline voids than the matrix style of dispense pattern.

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.

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 minus (-)40 °C or greater than minus (-)40 °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.

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Conversions

 $(^{\circ}C \times 1.8) + 32 = ^{\circ}F$ $kV/mm \times 25.4 = V/mil$ mm / 25.4 = inches $N \times 0.225 = lb$ $N/mm \times 5.71 = Ib/in$ $N/mm^2 \times 145 = psi$ MPa = N/mm² MPa x 145 = psi N·m x 8.851 = lb·in $N \cdot m \times 0.738 = Ib \cdot ft$ N·mm x 0.142 = oz·in mPa·s = 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

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and results. We strongly recommend that you carry out your own prior

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Reference 0.0