

LOCTITE ABLESTIK S3869

December 2016

PRODUCT DESCRIPTION

LOCTITE ABLESTIK S3869 provides the following product characteristics:

Technology	Silicone epoxy resin	
Appearance	white	
Cure	Heat cure	
Product Benefits	One component	
	No bleed	
	 No delamination after heat shock 	
	No yellowing	
	Non-conductive	
Application	Die attach	
Typical Package	GaN LED's	
Application		

LOCTITE ABLESTIK S3869 is a thermosetting, dielectric adhesive developed for GaN chip bonding for high-brightness LEDs. It features strong heat / UV resistance and can be applied by pin transfer, stamping and dispensing.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity, Cone & Plate, @ 25 °C mPa·s (cP): Speed 10 rpm	4,200
Specific Gravity @ 25°C Pot Life @ 25°C, hours	1.28 8
Shelf Life @ -40°C, days	91
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE Cure Schedule

2 hours @ 160°C

Shrinkage on Cure

0 01 1 1 0/	2.1
Cure Shrinkage. %	2.1

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:

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	Glass Transition Temperature, °C	39
	Hardness, Shore D	83
	Specific Gravity @ 25 °C	1.308
	Reflectance @ 465 nm, %	96

TYPICAL PERFORMANCE OF CURED MATERIAL

Die Shear Strength :	
@ 25°C, N	78
@ 150°C, N	28

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.
- DO NOT re-freeze. Once thawed, the adhesive should not be re-frozen.

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

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

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

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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