

LOCTITE ABLESTIK 8175Q

December 2016

PRODUCT DESCRIPTION

LOCTITE ABLESTIK 8175Q provides the following product characteristics:

Technology	Epoxy
Appearance	Silver
Cure	Heat cure
Product Benefits	<ul style="list-style-type: none"> Electrically conductive Thin, uniform bondline control Long work life
Application	Die attach
Filler Type	Silver
pH	5.4

LOCTITE ABLESTIK 8175Q is designed for solder replacement in microelectronic interconnect applications.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity, Brookfield CP51, 25 °C, mPa·s (cP):

Speed 5 rpm	35,000
Thixotropic Index	4.0
Density, gm/cc	4.0
Work Life @ 25°C, days	4
Shelf Life @ -40°C, days	365
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE Weight Loss on Cure

Weight Loss on Cure, %	2.9
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Cure Schedule

1 hour @ 150°C

Alternate Cure Schedule

4 hours @ 130°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

Physical Properties :

Extractable Ionic Content, ppm:	
Chloride (Cl-)	10
Sodium (Na+)	5
Potassium (K+)	1
Water Extract Conductivity, µmhos/cm	30

Electrical Properties:

Volume Resistivity, ohms-cm	0.0003
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TYPICAL PERFORMANCE OF CURED MATERIAL

Radius of Curvature:

250 mil ² IC, mm	563
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Die Shear Strength :

80 mil² Si die, psi

Substrate	@25°C
Ag leadframe	6500

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. 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.
4. DO NOT re-freeze. Once thawed to 25°C, 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

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$

$\text{kV/mm} \times 25.4 = \text{V/mil}$

$\text{mm} / 25.4 = \text{inches}$

$\text{N} \times 0.225 = \text{lb}$

$\text{N/mm} \times 5.71 = \text{lb/in}$

$\text{psi} \times 145 = \text{N/mm}^2$

$\text{MPa} = \text{N/mm}^2$

$\text{N} \cdot \text{m} \times 8.851 = \text{lb} \cdot \text{in}$

$\text{N} \cdot \text{m} \times 0.738 = \text{lb} \cdot \text{ft}$

$\text{N} \cdot \text{mm} \times 0.142 = \text{oz} \cdot \text{in}$

$\text{mPa} \cdot \text{s} = \text{cP}$

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Reference 1