

LOCTITE ABLESTIK UV300SEF

August 2013

PRODUCT DESCRIPTION

LOCTITE ABLESTIK UV300SEF provides the following product characteristics:

Technology	Acrylate
Appearance	Claybank viscous liquid
Product Benefits	<ul style="list-style-type: none">• Fast cure• One component
Cure	Ultraviolet (UV) light
Application	Assembly
Typical Assembly Applications	Electric Component Assembly

LOCTITE ABLESTIK UV300SEF single component, photocurable adhesive is designed for disk drive assembly applications such as conformal coating and component tracking. This product also contains a secondary thermal cure mechanism for applications that contain shadowed areas where light is unable to penetrate.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity @ 5 °C, mPa·s (cP)	19,000
Specific Gravity @ 25 °C	1.24
Shelf Life @ 5 to 10°C, days	90
Flash Point - See MSDS	

TYPICAL CURING PERFORMANCE

Gel Time

Gel @ 25°C, seconds	<2
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Recommended UV Cure

Light Source and Condition:

Medium pressure mercury vapor lamp:

Light Intensity, W/cm	120
Exposure Time, seconds	5
Depth of cure, μm	120

Secondary Thermal Cure Condition

20 minutes @ 110°C

Cure without UV exposure in air may cause tacky surface due to inhibition by atmospheric oxygen.

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:

Hardness, Shore D @ 25 °C	87
Water Absorption, after 1 hr @ 100°C, %	0.4

TYPICAL PERFORMANCE OF CURED MATERIAL

Shear Strength

Lap Shear Strength @ 25°C, Al to Al	N/mm ² 20
	(psi) (2,900)

GENERAL INFORMATION

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

DIRECTIONS FOR USE

1. Allow unopened container to reach room temperature before use.
2. Any moisture that collects on the container should be removed prior to use.
3. Cure at the recommended cure schedule.
4. Lower intensity of UV source than recommend may cause poor cure.
5. To ensure the long term performance of the bonded assembly, complete cleaning of the substrates should be performed to remove contamination such as oxide layers, moistures, dust, salts and oils which can cause poor adhesion or corrosion in a bonded part.

Storage

Store in original, tightly covered containers in clean, dry areas. Storage information may be indicated on the product container labeling.

Optimal Storage : 5 to 10 °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

(°C x 1.8) + 32 = °F
kV/mm x 25.4 = V/mil
mm / 25.4 = inches
N x 0.225 = lb
N/mm x 5.71 = lb/in
N/mm² x 145 = psi
MPa = N/mm²
MPa x 145 = psi
N·m x 8.851 = lb·in
N·m x 0.738 = lb·ft
N·mm x 0.142 = oz·in
mPa·s = cP

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