

LOCTITE ECCOBOND UV 3000LH

February 2016

PRODUCT DESCRIPTION

LOCTITE ECCOBOND UV 3000LH provides the following product characteristics:

Technology	Epoxy
Appearance	clear
Product Benefits	• Low halide • High temperature performance • Medium viscosity
Cure	Ultraviolet (UV)/ Cationic
Application	Sealant
Typical Applications	Glass bonding
Typical Optoelectronic Application	Lens attach

LOCTITE ECCOBOND UV 3000LH UV cure adhesive is designed for high throughput assembly operations. LOCTITE ECCOBOND UV 3000LH is an low halide version of UV3000.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity @ 25 °C, mPa·s (cP)	6,300
Specific Gravity	1.16
Shelf Life @ 25°C (from date of manufacture), year	1
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE

Recommended UV Cure

Light Source and Condition:

Ultraviolet (UV) light:

Light Intensity, mW/cm ²	200
Spectral Output, nanometers	300 to 500
UV Wavelength, nanometers	375

Exposure Time vs Bondline Thickness:

@ 0.005 inch bondline thickness, seconds	20
@ 0.01 inch bondline thickness, seconds	35
@ 0.125 inch bondline thickness, seconds	45
@ 0.25 inch bondline thickness, seconds	60

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 :

Glass Transition Temperature (T _g) by DSC, °C	151
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Extractable Ionic Content, @ 121°C, ppm:

Chloride (Cl ⁻)	4.2
Sodium (Na ⁺)	0
Potassium (K ⁺)	0

GENERAL INFORMATION

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

THAWING:

1. 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.
2. DO NOT re-freeze. Once thawed, the adhesive should not be re-frozen.
3. Freeze-thaw voids can form in the syringes if syringes are repeatedly thawed and refrozen.
4. DO NOT warm the syringe with hands during thawing.
5. DO NOT attempt to thaw by applying additional heat.
6. Thaw syringes with dispensing tip down at room temperature. This will reduce the risk of air voids causing inconsistent dispensing.

Storage

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

Optimal Storage : 25 °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