Technical Data Sheet

LOCTITE ECCOBOND UV 3000

September 2016

PRODUCT DESCRIPTION

LOCTITE ECCOBOND UV 3000 provides the following product characteristics:

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

LOCTITE ECCOBOND UV 3000 UV cure adhesive is designed for high throughput assembly operations. This adhesive can withstand exposure to temperatures as high as 200ºC.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity, Brookfield - HBT, 25 °C, mPa·s (cP):	
Spindle 7, speed 10 rpm	5,300
Specific Gravity @ 25ºC	1.09
Shelf Life @ 25°C (from date of manufacture), days	365
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE

Recommended UV Cure

Light Source and Condition:	
Ultraviolet (UV) light:	
Light Intensity, mW/cm²	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 (Tg), °C	150
Coefficient of Thermal Expansion :	
Alpha 1(40 to 120ºC), ppm	75
Extractable Ionic Content, @ 121°C, ppm:	
Chloride (Cl-)	<10
Sodium (Na+)	<5
Potassium (K+)	<5

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. Store tip down and warm at room temperature until no longer cool to the touch (normally 60 to 90 minutes).
4. DO NOT thaw in an oven.

DIRECTIONS FOR USE

1. Store and dispense away from any UV light sources such as sunlight.

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
(°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
psi x 145 = N/mm²
MPa = N/mm²
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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