

LOCTITE ECCOBOND XUV 9091

November 2021

PRODUCT DESCRIPTION

LOCTITE ECCOBOND XUV 9091 provides the following product characteristics:

Technology	Epoxy
Appearance	Translucent blue
Product Benefits	<ul style="list-style-type: none"> • Moderate thixotropy • Medium viscosity • Fast UV cure • High green strength
Cure	Ultraviolet (UV) light
Application	Digital Print Assembly, DPA Encapsulant
Typical Assembly Applications	Ink jet applications
Key Substrates	Silicon, variety of substrates

LOCTITE ECCOBOND XUV 9091 is a single component, UV light curable adhesive for ink jet applications.

LOCTITE ECCOBOND XUV 9091 one component encapsulant is formulated to dispense easily without stringing. It may be applied through pneumatic and positive displacement dispensers.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity, Casson, Pa-s:	
@ Shear rate of 10 s ⁻¹	102
@ Shear rate of 50 s ⁻²	41
Thixotropic Index:	
Speed 1/10 rpm	6.0
Speed 5/50 rpm	4.1
Shelf Life @ 0 to 4°C (from date of manufacture), days	90

TYPICAL CURING PERFORMANCE

Recommended UV Cure Condition

Light Source:	
D or H Type UV Lamp	
Exposure Time, seconds	25
Lamp Power, watts/inch	300

Photo DSC

Photo DSC (DPC) @ peak, min	2.47
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Depth of Cure

Depth of Cure, mil	18
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The above cure profiles are guideline recommendations.

Cure conditions (time and temperature) may vary based on customers' experience and specific application requirements, as well as customer curing equipment, oven loading and actual oven temperatures.

GENERAL INFORMATION

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

DIRECTIONS FOR USE

1. Complete cleaning of the substrates should be performed to remove contamination such as oxide layers, dust, moisture, salt and oils which can cause poor adhesion or corrosion in a bonded part.
2. Usable shelf life may vary depending on method of application and storage conditions.

STORAGE

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

Optimal Storage : 0 to 4 °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 Henkel Representative.

Conversions

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$
 $\text{kV/mm} \times 25.4 = \text{V/mil}$
 $\text{mm} / 25.4 = \text{inches}$
 $\text{N} \times 0.225 = \text{lb/F}$
 $\text{N/mm} \times 5.71 = \text{lb/in}$
 $\text{N/mm}^2 \times 145 = \text{psi}$
 $\text{N/mm}^2 = \text{MPa}$
 $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$
 $\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$
 $\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$
 $\text{mPa}\cdot\text{s} = \text{cP}$

Disclaimer

Note:

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Reference 1