

# LOCTITE ECCOBOND UV 9052

February 2016

## PRODUCT DESCRIPTION

LOCTITE ECCOBOND UV 9052 provides the following product characteristics:

<b>Technology</b>	Acrylate
<b>Appearance</b>	Translucent light blue
<b>Product Benefits</b>	<ul style="list-style-type: none"> <li>• One component</li> <li>• Fast UV cure</li> <li>• Withstands exposure to ink</li> <li>• Cures in shadowed areas</li> <li>• No stringing</li> </ul>
<b>Dispense Method</b>	Pneumatic or Positive displacement dispensers
<b>Cure</b>	Ultraviolet (UV)/ moisture
<b>Application</b>	Encapsulant
<b>Typical Applications</b>	ink jet applications
<b>Key Substrates</b>	Silicon, Plastics and Variety of substrates

LOCTITE ECCOBOND UV 9052 is a single component, UV light/moisture curable adhesive for ink jet applications.

## TYPICAL PROPERTIES OF UNCURED MATERIAL

Thixotropic Index	6
Viscosity, TA-AR 1000, mPa·s (cP):	
40 mm Parallel Plate:	
@ 5sec <sup>-1</sup>	41,000
@ 50sec <sup>-1</sup>	6,400
Shelf Life @ -20°C, days	91
Flash Point - See SDS	

## TYPICAL CURING PERFORMANCE

### Recommended UV Cure

Light Source and Condition:	
Medium pressure mercury vapor lamp	
Doped UV Lamp	
Lamp Power, Joule	0.5 to 1
Recommended Dose, seconds	5 to 10
Depth of cure, mils	>125

Moisture cures occurs at ambient temperature and humidity.

The above cure profile is a guideline recommendation. The speed and depth of cure will depend on the UV intensity measured at the product surface.

## TYPICAL PROPERTIES OF CURED MATERIAL

### Physical Properties :

Hardness, Shore A, after UV Cure	>40
Hardness, Shore D, after UV/Moisture Cure	>30
Photo DSC (DPC) @ peak, minutes	2.1

## GENERAL INFORMATION

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

## DIRECTIONS FOR USE

1. After unsealing pouches and removing tubes, store tubes at room temperature in a humidity controlled cabinet at a maximum of 30% RH.
2. The compressed air used for dispensing should have a dew point of -40°C or lower. This will eliminate any moisture that could cure material between the piston and tube wall, possibly causing the piston to bind.
3. Usable shelf life may vary depending on method of application and storage conditions.

## 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 : -20 °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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