

LOCTITE ECCOBOND EN UV9066

July 2019

PRODUCT DESCRIPTION

LOCTITE ECCOBOND EN UV9066 provides the following product characteristics:

Technology	Acrylate
Appearance	Translucent
Product Benefits	<ul style="list-style-type: none"> One component Fast UV cure Cures in shadowed areas Jet dispensable
Cure	Ultraviolet (UV)/ moisture
Application	Encapsulation or Glob top
Typical Assembly Applications	Adhesive and Sealant

LOCTITE ECCOBOND EN UV9066 single component adhesive specifically formulated to cure when exposed to U.V. light. This product also contains a secondary moisture cure mechanism for applications with shadowed areas where light is unable to penetrate.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity, Brookfield CP51, 25 °C, mPa·s (cP):	
@ Speed 5.0 rpm	5,500
Thixotropic Index (0.5/5.0 rpm)	3.5
Pot Life @ 25 °C, days	1
Shelf Life @ -20 °C, days	180
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE

Recommended UV Cure

Light Source and Condition	
Ultraviolet (UV) light	
UV Wavelength, nm	365
Light Intensity, mW/cm ²	1,000
Exposure Time, second	1

Depth of Cure

Sample tested using LED 365nm lamp with light intensity of 1,000 mJ/cm²

Depth of Cure, mm	1.92
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Moisture cure occurs at ambient temperature and humidity.

The above cure profile is a guideline recommendation. Cure conditions (intensity and time) may vary based on customers' experience and their application requirements, as well as customer UV equipment.

TYPICAL PROPERTIES OF CURED MATERIAL

Sample cured at the recommended cure condition.

Physical Properties

Glass Transition Temperature (Tg) by TMA, °C	45
Coefficient of Thermal Expansion, :	
Below Tg, ppm/°C	112
Above Tg, ppm/°C	229
Hardness, Shore A:	
After UV Cure	50
After UV Cure and 1 day @ 25°C	52
After UV Cure and 7 days @ 25°C	85
Tensile Modulus:	
@ 25°C, after UV Cure	N/mm ² 15
	(psi) (2,180)
@ 25°C, after 7days	N/mm ² 670
	(psi) (97,200)

GENERAL INFORMATION

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

DIRECTIONS FOR USE

- Complete cleaning of the substrate should be performed to remove contamination such as oil, grease, scale, mold release and loose foreign matter.
- Apply adhesive to all surfaces to be bonded and join together.

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.

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.

Conversions

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

Disclaimer**Note:**

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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