

LOCTITE ECCOBOND DS 3318LV

November 2016

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PRODUCT DESCRIPTION

LOCTITE ECCOBOND DS 3318LV provides the following product characteristics:

Technology	Acrylic
Appearance	Light yellow, transparent liquid
Components	One-component
Product Benefits	Fast cure
	Low energy cure
	 Good moisture resistance
	High flexibility
Cure	Ultraviolet (UV)/ visible light, UV LED
Application	Coating and Sealant
Typical Package	LCD module assembly
Application	

LOCTITE ECCOBOND DS 3318LV is suitable for a wide variety of coating applications that require strict humidity reliability performance, such as ITO/COG overcoat in LCD module assembly.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity @ 25 °C, mPa·s (cP)	968
Specific Gravity	0.97
Shelf Life @ 25°C, months	12
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE

Recommended UV Cure

Ultraviolet (UV), Visible light or UV LED
Light Source and Condition:
High pressure mercury lamp
Irradiance, mW/cm²

irradiance, irrv/cm

Time required to achieve tack-free surface, seconds 3

Depth of Cure

Tack Free Time

LOCTITE ECCOBOND DS 3318LV can be cured by irradiation with ultraviolet and visible light as well as LED-UV light with single wavelength distribution of sufficient intensity. Cure rate and depth of cure depend on the intensity, spectral distribution of the light source, exposure time and light transmittance of the substrate through which the light must pass.

TYPICAL PROPERTIES OF CURED MATERIAL

Physical Properties :

Glass Transition Temperature, DMA, °C	64
Water Permeability, gm/mil/100 in ² /day:	
24 hours, 50°C, 100% RH	21
Extractable Ionic Content, , ppm:	
Chloride (CI-)	7.0
Sodium (Na+)	1.0
Modulus , Fusion, irradiated 4 times:	
N/mm²	504
(psi)	(73,099)

Electrical Properties:

Volume Resistivity	ohms-cm	4 94×10 ¹⁶

Miscellaneous:

Tensile	Strength,	at	break,	sample	cured	with	2,000 mJ/cm ²
energy:							
N/mm ²							13.3
(psi)							(1,929)



GENERAL INFORMATION

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

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.

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: 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

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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