



UV3618LV

PRODUCT DESCRIPTION

UV3618LV provides the following product characteristics:

Technology	Acrylic
Appearance	Light yellow, transparent liquid
Components	One-component
Product Benefits	<ul style="list-style-type: none">• Fast cure• Low energy cure• Good moisture resistance• High flexibility
Cure	Ultraviolet (UV)/ visible light, UV LED
Application	Coating and Sealant
Typical Package Application	LCD module assembly

UV3618LV 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 100

Tack Free Time

Time required to achieve tack-free surface, seconds 3

Depth of Cure

LONGAIN UV3618LV 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 (Cl ⁻)	7.0
Sodium (Na ⁺)	1.0
Modulus , Fusion, irradiated 4 times:	
N/mm ²	504
(psi)	(73,099)

Electrical Properties:

Volume Resistivity , ohms-cm	4.94×10 ¹⁶
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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. Longain 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

$$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$$

$$\text{kV/mm} \times 25.4 = \text{V/mil}$$

$$\text{mm} / 25.4 = \text{inches}$$

$$\text{N} \times 0.225 = \text{lb}$$

$$\text{N/mm} \times 5.71 = \text{lb/in}$$

$$\text{psi} \times 145 = \text{N/mm}^2$$

$$\text{MPa} = \text{N/mm}^2$$

$$\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$$

$$\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$$

$$\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$$

$$\text{mPa}\cdot\text{s} = \text{cP}$$

Note

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, Longain Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Longain Corporation's products. Longain Corporation specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits. The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Longain Corporation patents that may cover such processes or compositions. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. This product may be covered by one or more United States or foreign patents or patent applications.