

LOCTITE® ECCOBOND DS 7301N

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PRODUCT DESCRIPTION

LOCTITE® ECCOBOND DS 7301N provides the following product characteristics:

Technology	Epoxy
Appearance	Gray
Product benefits	<ul style="list-style-type: none"> • One component • Non-conductive • Fast cure at low temperature • Good resistance to water permeation
Cure	Heat cure
Application	Device assembly, structural adhesive
Typical assembly applications	OLED displays, display parameter sealant

LOCTITE® ECCOBOND DS 7301N adhesive sealant is designed for display assembly applications that require protection against humidity and oxygen.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity, Cone & Plate, @25°C, mPa·s (cP):

Speed 5 rpm	686
Pot life @ 25°C, hours	8
Shelf life @ -40°C, (from date of manufacture), months	3
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE

Cure schedule

- >90minutes @ 70°C or
- >60minutes @ 80°C

Time shown does not include ramp-up time to cure temperature.

The above cure profiles are guideline recommendations. These 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.

TYPICAL PROPERTIES OF CURED MATERIAL

Physical Properties

Hardness, Shore D	81
Glass transition temperature, (T _g) by DMA, °C	75.6
DMA Modulus, MPa	3,443.3
Water vapor permeability coefficient, g.mil/100 in ² .day: 50°C/100% RH	5.8

TYPICAL PERFORMANCE OF CURED MATERIAL

Miscellaneous

Die shear strength, @ 25°C

4 X 4 mm (160 x 160 mil) Glass die to PET, Kg 45

GENERAL INFORMATION

Please consult the Safety Data Sheet (SDS) for safe handling information of this product.

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 the specifications of this product.

Thawing

1. Allow container to reach room temperature before use.
2. After removing from the freezer, set the syringes to stand vertically while thawing.
3. Any moisture that collects on the thawed package should be removed prior to opening the package.

Directions for use

1. The surfaces on which the adhesive has to be applied should be clean, dry and free from all dust.
2. Due to the nature of the product, heating of the syringe or the surface during dispensing is not advised as this will cause the product to start to cure.

Storage

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

Optimal storage: -40°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

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

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