

# LOCTITE ECCOBOND 7200

September 2012

## PRODUCT DESCRIPTION

LOCTITE ECCOBOND 7200 provides the following product characteristics:

<b>Technology</b>	Epoxy
<b>Appearance</b>	beige
<b>Product Benefits</b>	<ul style="list-style-type: none"><li>• One component</li><li>• Non-conductive</li><li>• Low cure temperature</li><li>• Excellent resistance to water permeation</li><li>• Fast cure at low temperatures</li></ul>
<b>Cure</b>	Heat cure
<b>Application</b>	Display perimeter sealant
<b>Typical Optic Application</b>	OLED displays

LOCTITE ECCOBOND 7200 adhesive sealant is designed for high throughput display assembly that require protection against humidity and oxygen.

## TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity @ 25°C, 15 s<sup>-1</sup>, Plate 2 cm, mPa·s (cP) 2,350

Flow Rate @ 25°C, seconds:

Glass/PET

@ 10 mm travel, 250 µm gap <250

Particle Size:

Typical 55  
Maximum 120

Pot Life @ 25°C, hours 12

Shelf Life @ -40°C, days 183

Flash Point - See SDS

## TYPICAL CURING PERFORMANCE

### Cure Schedule

#### Convection:

30 minutes @ 70°C or

15 minutes @ 80°C or

7 minutes @ 100°C

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

After cure, the material is best left at room temperature for 24 hours before starting any evaluation

The above cure profiles are guideline recommendations. Cure conditions (time and temperature) may vary based on customers' experience and their application requirements, as well as customer curing equipment, oven loading and actual oven temperatures.

## Differential Scanning Calorimetry

Temperature Program from 25 °C at 5 °C/minute

Peak Maximum, °C 63 to 69

Peak Onset, °C 52 to 58

## TYPICAL PROPERTIES OF CURED MATERIAL

### Physical Properties :

Extractable Ionic Content, ppm:

Chloride (Cl-) <70

Potassium (K+) <30

Sodium (Na+) <1

Fluoride (F-) <1

Linear Shrinkage, %  
70°C cure <1.5

## TYPICAL PERFORMANCE OF CURED MATERIAL

### Physical Properties:

Water Vapor Transmission Rate:

@ 50 °C / 100 %RH, g/m<sup>2</sup> , day <25

Using film of maximum 250 µm thickness

Water Vapor Permeation Coefficient :

@50 °C / 100 %RH, g.mil / 100 inch<sup>2</sup> .day 6 to 9

## GENERAL INFORMATION

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

### 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

### 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 : -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**

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

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Reference 1