

LOCTITE ECCOBOND DS 8027

September 2014

PRODUCT DESCRIPTION

LOCTITE ECCOBOND DS 8027 provides the following product characteristics:

Technology	Epoxy
Appearance	Translucent paste
Product Benefits	<ul style="list-style-type: none"> • Excellent permeation resistance to water vapor • Good dispensability • Good adhesion to ITO coated glass • Translucent after cure
Cure	UVA
Application	Sealant
Typical Assembly Applications	Perimeter sealant in OLED and E-paper displays

LOCTITE ECCOBOND DS 8027 non-conductive epoxy perimeter sealant is designed to be used in display applications.

TYPICAL PROPERTIES OF UNCURED MATERIAL

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

@ Shear rate of 15 s ⁻¹	118,000
Shear Thinning Index	4.3
Work Life @ 25°C, days	30
Shelf Life @ 2 to 8 °C, days	183
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE

Recommended UV Cure

UV Light:

UVA Dosage, J/cm ²	7.5
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For enhanced performance, an additional heat cure of 1 hour @ 85°C is recommended.

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.

TYPICAL PROPERTIES OF CURED MATERIAL

Physical Properties

Water Vapor Permeability Coefficient, g.mil / 100 in ² : @ 50°C/100% RH	4.31
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TYPICAL PERFORMANCE OF CURED MATERIAL

Shear Strength

Die Shear Strength @ 25 °C:

4 x 4 mm die, Kg:	
Glass to Glass	21
Glass to ITO coated glass	23

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.

THAWING:

1. Allow container to reach room temperature before use.
2. Thaw material prior to use. A 10 cc syringe will thaw in approximately 30 minutes; a 30 cc syringe in 60 minutes.

STORAGE:

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

Optimal Storage: 2 to 8°C. Storage below 0°C or greater than 30 °C can adversely affect product properties.

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/F
N/mm x 5.71 = lb/in
psi x 145 = N/mm ²
MPa = N/mm ²
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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