

# LOCTITE ECCOBOND CG1001

September 2016

## PRODUCT DESCRIPTION

LOCTITE ECCOBOND CG1001 provides the following product characteristics:

<b>Technology</b>	Epoxy
<b>Appearance</b>	Black
<b>Cure</b>	Heat cure
<b>Product Benefits</b>	<ul style="list-style-type: none"> <li>• Laser Markable</li> <li>• Stencil or screen printable</li> <li>• Low CTE</li> <li>• Low stress</li> </ul>
<b>Application</b>	Coating

LOCTITE ECCOBOND CG1001 laser markable material is designed for coating the backside of silicon wafers.

## TYPICAL PROPERTIES OF UNCURED MATERIAL

Filler Content by weight, ignition, %	72
Viscosity, Brookfield CP52, 25 °C, mPa·s (cP):	
Speed 20 rpm	22,000
Gel Time @ 150°C, minutes	25
Pot Life @ 25°C, hours	>48
Shelf Life @ -40°C, year	1
Volatile Content by weight, %	9.2

## TYPICAL CURING PERFORMANCE

### Cure Schedule

60 minutes @ 165°C

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.

## 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.

## DIRECTIONS FOR USE

1. Bring product to room temperature prior to use.
2. This product is best applied by screen or stencil printing.
 

Recommended Thickness, mils	3 to 5
Fabric Type	Monofilament polyester or Stainless steel
Squeegee Hardness, durometer	60 to 70
3. Squeegee material should be sharp and free of nicks and bumps. Squeegee durometer, pressure and angle should be adjusted according to the desired film thickness.
4. LOCTITE ECCOBOND CG1001 is supplied ready for use. Should thinning become necessary, dilute 2% by weight with Ethyl 3-Ethoxypropionate.

## 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 cool dry well ventilated area. Storage information may be indicated on the product container labeling.

### Optimal Storage: -40°C or below.

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

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

## 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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## Reference 1