

# LOCTITE ECCOBOND DP 1000

September 2012

## PRODUCT DESCRIPTION

LOCTITE ECCOBOND DP 1000 provides the following product characteristics:

<b>Technology</b>	Epoxy
<b>Appearance</b>	Blue liquid
<b>Product Benefits</b>	<ul style="list-style-type: none"> <li>• Chemical resistant</li> <li>• Crack resistant</li> </ul>
<b>Cure</b>	Heat Cure
<b>Application</b>	Encapsulant
<b>Typical Package Application</b>	Wirebond/Tab Bond Isolation

LOCTITE ECCOBOND DP 1000 encapsulant features good adhesion to low energy plastic and metal substrates.

## TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity, Rheometer @ 25 °C, mPa·s (cP):

@ 2 s <sup>-1</sup>	120,000
@ 20 s <sup>-1</sup>	35,000

Yield Point, Rheometer @ 25°C, Pa 40

Pot life, Rheology, hours 24

Shelf Life @ -40°C (from date of manufacture), days 122

Flash Point - See SDS

## TYPICAL CURING PERFORMANCE

### Recommended Cure Schedule

5 minutes @ 140°C or

40 minutes @ 120°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.

## TYPICAL PROPERTIES OF CURED MATERIAL

### Physical Properties :

Glass Transition Temperature, peak, DMA, °C 155

Young's modulus (E) , DMA:

@ 25 °C	N/mm <sup>2</sup> 2,000
	(psi) (290,000)

Ink Uptake, 28 days @ 70°C, % <5

## TYPICAL PERFORMANCE OF CURED MATERIAL

Die Shear Strength :	
To Silicon, kg-f	30

## GENERAL INFORMATION

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

### THAWING:

1. Frozen packages must be completely thawed before use.
2. Store tip down and warm at room temperature until no longer cool to the touch (normally 60 to 90 minutes).
3. DO NOT thaw in an oven.

### 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.

### 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.

### Conversions

(°C x 1.8) + 32 = °F

kV/mm x 25.4 = V/mil

mm / 25.4 = inches

N x 0.225 = lb

N/mm x 5.71 = lb/in

psi x 145 = N/mm<sup>2</sup>

MPa = N/mm<sup>2</sup>

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

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