

# LOCTITE ECCOBOND DP 1005

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## PRODUCT DESCRIPTION

LOCTITE ECCOBOND DP 1005 provides the following product characteristics:

<b>Technology</b>	Epoxy
<b>Appearance</b>	white
<b>Product Benefits</b>	<ul style="list-style-type: none"> <li>Chemical resistant</li> <li>Jet dispensable</li> <li>Good adhesion to Tantalum Oxide and Silicon Nitride passivation layers</li> </ul>
<b>Cure</b>	Heat Cure
<b>Application</b>	Die attach
<b>Typical Package Application</b>	Metal die to LCP/PPS Plastic

LOCTITE ECCOBOND DP 1005 jet dispensable die attach adhesive is designed for bonding low energy plastic on metal substrates.

## TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity @ 35°C, 6,700 s <sup>-1</sup> , mPa·s (cP)	500
Pot life, Rheology, hours	24
Flash Point - See SDS	

## TYPICAL CURING PERFORMANCE

### Recommended Cure Schedule

Ramp from 25°C to 120°C, 60 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, DMA, °C	75
Young's modulus (E), DMA:	
@ 25 °C	N/mm <sup>2</sup> 3,000 (psi) (435,000)
Ink Uptake, Ink Soak, 28 days @ 70°C, %	<15

## TYPICAL PERFORMANCE OF CURED MATERIAL

Die Shear Strength :	
LCP/PPS to SiN or TaO, kg-f	40

## GENERAL INFORMATION

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

## THAWING:

- Frozen packages must be completely thawed before use.
- Store tip down and warm at room temperature until no longer cool to the touch (normally 60 to 90 minutes).
- 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 : -20 °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 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**