

LOCTITE ABLESTIK NCA 2372

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PRODUCT DESCRIPTION

LOCTITE ABLESTIK NCA 2372 provides the following product characteristics:

Technology	Epoxy hybrid
Appearance	Black liquid
Product Benefits	 One component Non-conductive Low temperature cure Well control RBO Good adhesion High elongation Low modulus
Cure	Heat cure
Application	Component assembly, NCA (Non Conductive Adhesive)
Typical Assembly Applications	Optical sensor and Camera module assembly

LOCTITE ABLESTIK NCA 2372 is designed for heat sensitive applications requiring a low cure temperature. It is a one part adhesive formulated to provide good adhesion when used on a wide range of materials. This product is particularly suited where low curing temperatures are required for heat sensitive components.

LOCTITE ABLESTIK NCA 2372 is designed for bonding materials with mismatched coefficients of thermal expansion.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity, Brookfield CP51, 25 °C, mPa·s (cP):	
Speed 5 rpm	18,000
Thixotropic Index (0.5/5 rpm)	4.4
Work Life @ 25°C, days	3
Shelf Life @ -20°C, days	180
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE

Recommended Heat Cure Schedule

30 minutes @ 80°C in Conventional oven

With all curing systems, the time required for cure depends on the rate of heating. Cure rate depends on the mass of material to be heated and intimate contact with the heat source. Use suggested cure conditions as general guidelines. Other cure conditions may yield satisfactory results.

Weight Loss

Weight Loss on Cure, %:	
Sample cured 30 mins @ 80°C	0.1

Shrinkage on Cure

Cure Shrinkage, %

2.5

The above cure profile is a guideline recommendation. These cure conditions (time and temperature) may vary based on customers' experience and specific application requirements, as well as customer curing equipment, oven loading and actual oven temperatures.

TYPICAL PROPERTIES OF CURED MATERIAL

Sample cured 30 minutes @ 80°C.

65
27
56
159
320
70

TYPICAL PERFORMANCE OF CURED MATERIAL

Sample cured 30 minutes @ 80°C.

Shear Strength

Die Shear Strength, 2 x 2 mm Si die, kg/die:

Post Cure:	
on LCP	9.3
on EMC	12.7
on PCB	12.6
on PA 9T	12.8
After 120 hours @ 85°C/85% RH:	
on LCP	7.8
on EMC	10.2
on PCB	12.9
on PA 9T	11.6

GENERAL INFORMATION

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

Directions for Use

- 1. Complete cleaning of the substrates should be performed to remove contamination such as oxide layers, dust, moisture, salt and oils which can cause poor adhesion or corrosion in a bonded part.
- 2. Usable shelf life may vary depending on method of application and storage conditions.
- 3. Please contact your Henkel Technical Service representative for details on directions for use regarding



your specific application.

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. Storage below -25°C or greater than -15°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 Henkel Representative.

Conversions

 $(^{\circ}C x 1.8) + 32 = ^{\circ}F$ 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/mm² MPa = N/mm² N·m x 8.851 = lb·in N·m x 0.738 = lb·ft N·mm x 0.142 = oz·in mPa·s = cP

Not for product specifications

The technical data contained herein are intended as reference only. Please contact your local Henkel representative for assistance and recommendations on the specifications of this product.

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