

LOCTITE ABLESTIK NCA 3285

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PRODUCT DESCRIPTION

LOCTITE ABLESTIK NCA 3285 provides the following product characteristics:

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Technology	Epoxy			
Appearance	Black liquid			
Product Benefits	One component			
	 Fast cure at low temperatures 			
	 High service temperature reliability 			
	 Excellent adhesion 			
	 Halogen free 			
Cure	Heat cure			
Application	Non-conductive adhesive			
Typical Applications	Lens bonding, Image sensors, Multimedia card (MMC) assembly			

LOCTITE ABLESTIK NCA 3285 is designed for heat sensitive applications requiring a low cure temperature. It cures rapidly providing customers high throughput in applications, such as, bonding of light-diffusing lenses over LEDs and assembly of image sensing devices including camera modules.

LOCTITE ABLESTIK NCA 3285 is formulated to provide higher levels of adhesion at high service temperatures (60°C), while providing sufficient flexibility to survive manufacturing assembly processes.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity, Cone & Plate, Angle 2°, mPa·s (cP):	
@ Shear rate of 2 s ⁻¹	59,000
@ Shear rate of 20 s ⁻¹	15,300
Thixotropic Index	4
Specific Gravity @ °C	1.3
Work Life @ 25°C, days	>7
Shelf Life @ -20°C (from date of manufacture), days	365
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE

Cure Schedule

2 minutes @ 80°C

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.

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

Sample cured 30 minutes @ 80°C

Physical Properties

Hardness, Shore D, ASTM D2240		79	
Coefficient of Thermal Expansion , ppm/°C:			
Below Tg		64	
Above Tg		181	
Glass Transition Temperature (Tg) by TMA,	°C	44	
DMA Modulus @ 25 °C	N/mm² (psi)	3,370 (488,777)	

TYPICAL PERFORMANCE OF CURED MATERIAL

Sample cured 30 minutes @ 80°C

Shear Strength

Tensile Strength @ 25 °C:

TS024 75 μ m thickness, 1 mg sample N/mm² 20 (psi) (2,900)

GENERAL INFORMATION

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

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.

DIRECTIONS FOR USE

- 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.
- Some filler settling is common during shipping and storage. For this reason, it is recommended that the contents of the shipping container be thoroughly mixed prior to use.
- 3. Apply adhesive to all surfaces to be bonded and join together.
- 4. In most applications only contact pressure is required.
- 5. Usable shelf life may vary depending on method of application and storage conditions.

Storage

Store in original, tightly covered containers in clean, dry areas. 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.



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 N/mm² x 145 = psi MPa = N/mm² MPa x 145 = psi 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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