

# LOCTITE ABLESTIK DX10C

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## PRODUCT DESCRIPTION

LOCTITE ABLESTIK DX10C provides the following product characteristics:

<b>Technology</b>	Epoxy
<b>Appearance</b>	Transparent and colorless
<b>Product Benefits</b>	<ul style="list-style-type: none"> <li>• One component</li> <li>• No yellowing</li> <li>• Long work life</li> <li>• Non-conductive</li> </ul>
<b>Cure</b>	Heat cure
<b>Application</b>	Die attach
<b>Typical Package Application</b>	GaN LED's

LOCTITE ABLESTIK DX10C is a thermosetting, dielectric adhesive developed for GaN blue and white LED chip bonding. It features strong heat / UV resistance and can be applied by pin transfer, stamping and dispensing.

## TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity @ 25 °C, mPa·s (cP):

Speed 10 rpm	3,000
Work Life, hours	24
Shelf Life @ -20°C, days	183
Flash Point - See SDS	

## TYPICAL CURING PERFORMANCE Cure Schedule

1 hour @ 140°C

Time shown does not include ramp-up time to cure temperature.

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 :

Coefficient of Thermal Expansion ppm/°C:

Below Tg	68
Above Tg	163

Glass Transition Temperature (Tg) by TMA, °C 116

## TYPICAL PERFORMANCE OF CURED MATERIAL

Die Shear Strength :

1.25 mm Si die @ 25°C, N	80
1.25 mm Si die @ 160°C, N	54

## GENERAL INFORMATION

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

### THAWING:

1. Allow container to reach room temperature before use.
2. Syringes should thaw a minimum of 90 minutes.

### 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 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.

### 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