

# LOCTITE ABLESTIK C990J 584HV

August 2013

**PRODUCT DESCRIPTION**

LOCTITE ABLESTIK C990J 584HV provides the following product characteristics:

<b>Technology</b>	Epoxy
<b>Appearance</b>	Silver
<b>Components</b>	One-component
<b>Product Benefits</b>	<ul style="list-style-type: none"><li>Electrically conductive</li><li>Good thermal stability</li><li>Low extractable ionics</li></ul>
<b>Application Method</b>	screen printing
<b>Filler Type</b>	Silver
<b>Cure</b>	Heat Cure
<b>Application</b>	Electrically Conductive Adhesive

LOCTITE ABLESTIK C990J 584HV die attach is versatile and is designed for microelectronic applications.

**TYPICAL PROPERTIES OF UNCURED MATERIAL**

Viscosity @ 25 °C,	100,000
Shelf Life @ -20 to 0°C, days	180
Flash Point - See MSDS	

**TYPICAL CURING PERFORMANCE****Recommended Cure Schedule**

60 minutes @ 150°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**

Extractable Ionic Content @ 100 °C, 20 hours, ppm:

Chloride (Cl-)	<20
Sodium (Na+)	<10
Potassium (K+)	<10

**Electrical Properties**

Volume Resistivity @ 25°C, ohm-cm	2.00×10 <sup>-04</sup>
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**TYPICAL PERFORMANCE OF CURED MATERIAL****Miscellaneous**

Die Shear Strength:

1.25 x 1.25 mm Si die @ 25 °C, Kg	6.12
2.5 x 2.5 mm Si die @ 200 °C, Kg	1.22

**GENERAL INFORMATION**

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

**DIRECTIONS FOR USE**

1. Allow material to reach ambient temperature before use.
2. Some separation of components is common during shipping and storage. If separation occurs, stir gently until uniform, being careful not to entrap air.
3. Equipment parts can be cleaned using solvents such as acetone, methyl ethyl ketone, ethanol, isopropanol or CLEANER 50306.

**Storage**

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

**Optimal Storage : -20 to 0 °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  
N/mm<sup>2</sup> x 145 = psi  
MPa = N/mm<sup>2</sup>  
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

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