

LOCTITE ABLESTIK C990J 584

August 2013

PRODUCT DESCRIPTION

LOCTITE ABLESTIK C990J 584 provides the following product characteristics:

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

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

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity @ 25 °C,	25,000
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 ⁻⁰⁴
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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

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$
 $\text{kV/mm} \times 25.4 = \text{V/mil}$
 $\text{mm} / 25.4 = \text{inches}$
 $\text{N} \times 0.225 = \text{lb}$
 $\text{N/mm} \times 5.71 = \text{lb/in}$
 $\text{N/mm}^2 \times 145 = \text{psi}$
 $\text{MPa} = \text{N/mm}^2$
 $\text{MPa} \times 145 = \text{psi}$
 $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$
 $\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$
 $\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$
 $\text{mPa}\cdot\text{s} = \text{cP}$

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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