

LOCTITE ABLESTIK C992J 102

August 2013

PRODUCT DESCRIPTION

LOCTITE ABLESTIK C992J 102 provides the following product characteristics:

characteristics.	
Technology	Epoxy
Appearance	Silver paste
Cure	Heat cure
Product Benefits	Conductive
	No bleed
	 Low ionic impurities
	 Excellent stability during shipping, storage and use
Application	Electrically Conductive Adhesive

LOCTITE ABLESTIK C992J 102 silver filled, conductive epoxy adhesive is formulated for use in various microelectronics applications. This adhesive may be used in applications which cannot tolerate silver migration.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Specific Gravity @ 25°C	3.19
Viscosity @ 25 °C, mPa·s (cP)	47,000
Shelf Life @ -20 to 0°C, days	183
Flash Point - See MSDS	

TYPICAL CURING PERFORMANCE

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

Sample cured 60 minutes @ 140°C

Physical Properties

	Glass Transition Temperature (Tg) by DSC, °C	110
	Thermal Decomposition , TGA, °C	351
Extractable Ionic Content @ 100 °C, , 20 hours, ppm:		
	Chloride (CI-)	N/D
	Sodium (Na+)	0.2
	Potassium (K+)	5
	Ammonium (NH4+)	4

Electrical Properties

Volume Resistivity @ 25°C, ohm-cm	0.0001
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TYPICAL PERFORMANCE OF CURED MATERIAL

Shear Strength

 Die Shear Strength:

 Si die on Ag plated Cu LF:

 1.25 x 1.25 mm die @ 25 °C, Kg
 5.61

 2.5 x 2.5 mm die @ 200 °C, Kg
 1.63

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.

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.

Conversions

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



Disclaimer

Note:

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