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LOCTITE

Technical Data Sheet

LOCTITE ABLESTIK 958-7

October 2014

PRODUCT DESCRIPTION

LOCTITE ABLESTIK 958-7 provides the following product characteristics:

Technology	Epoxy
Appearance	Gray
Cure	Heat cure
Product Benefits	• Electrically conductive • Good adhesion to gold
Application	Die attach
Filler Type	Silver

LOCTITE ABLESTIK 958-7 electrically conductive epoxy adhesive is designed for hybrid die attach. This adhesive provides better adhesion to gold than other versions of ABLEBOND 958 adhesive series.

METHOD 5011

LOCTITE ABLESTIK 958-7 meets the supplier requirements of Method 5011.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity, Brookfield CP51, 25 °C, mPa·s (cP):	
Speed 2.5 rpm	90,000
Work Life @ 25°C, days	7
Shelf Life @ -40°C, days	365
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE

Recommended Curing Conditions

1 hour @ 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

Coefficient of Thermal Expansion , TMA:	
Below Tg, ppm/°C	38
Above Tg, ppm/°C	120
Glass Transition Temperature (Tg) by TMA, °C	67
Extractable Ionic Content, ppm:	
Chloride (Cl-)	105
Sodium (Na+)	30
Potassium (K+)	N/D
Fluoride (F-)	1
Water Extract Conductivity, µmhos/cm	15
Weight Loss @ 300ºC, TGA, %	0.23
pH	5.6
Thermal Conductivity , W/(m-K)	2.0

Electrical Properties

Volume Resistivity, ohms-cm:	
@ 25°C, ohm-cm	0.0001
@ 60°C, ohm-cm	0.0001
@ 150°C, ohm-cm	0.0001
@ 25°C, after 1,000 hours @ 150°C, ohm-cm	0.00001

TYPICAL PERFORMANCE OF CURED MATERIAL

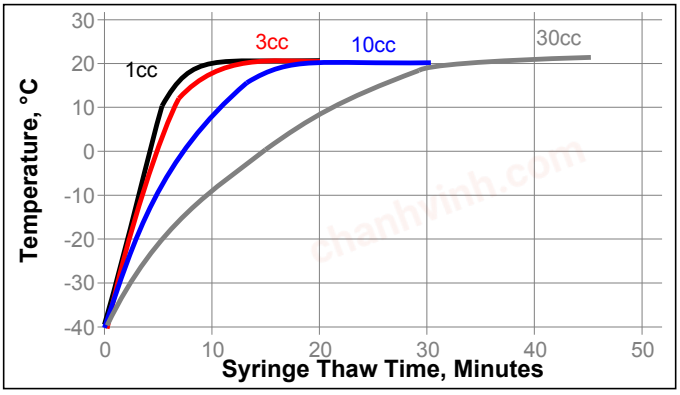
Lap Shear Strength @ 25°C:		
Al to Al	N/mm²	14
	(psi)	(2,030)
Au to Au	N/mm²	17
	(psi)	(2,465)
Bond Strength:		
@ 25°C	N/mm²	39
	(psi)	(5,700)
@ 25°C, after 1,000 hours @ 150ºC	N/mm²	37
	(psi)	(5,400)

GENERAL INFORMATION

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

THAWING:

1. Allow container to reach room temperature before use.
2. After removing from the freezer, set the syringes to stand vertically while thawing.
3. DO NOT open the container before contents reach 25°C temperature. Any moisture that collects on the thawed container should be removed prior to opening the container.
4. DO NOT re-freeze. Once thawed to 25°C, the adhesive should not be re-frozen.



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DIRECTIONS FOR USE

1. Thawed adhesive should immediately be placed on dispense equipment for use.
2. If the adhesive is transferred to a final dispensing reservoir, care must be exercised to avoid entrapment of contaminants and/or air into the adhesive.
3. Adhesive must be completely used within the product's recommended work life.
4. Apply enough adhesive to achieve a 25 to 50 µm wet bondline thickness, dispensed with approximately 25 to 50 % filleting on all sides of the die.
5. Alternate dispense amounts may be used depending on the application requirements.
6. Star or crossed shaped dispense patterns will yield fewer bondline voids than the matrix style of dispense pattern.

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: -40 °C. Storage below minus (-)40 °C or greater than minus (-)40 °C can adversely affect product properties.

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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