

LOCTITE ABLESTIK ICP 8118

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PRODUCT DESCRIPTION

LOCTITE ABLESTIK ICP 8118 provides the following product characteristics:

Technology	Acrylate	
Appearance	Silver	
Cure	Heat cure	
Product Benefits	One component	
	Snap curable	
	Excellent flexibility	
	Electrically conductive	
	Suitable for high	
	speed dispensing	
Application	Component assembly	
	Electrically Conductive Adhesive	
Typical Package	Flexible interconnects in photovoltaic	
Application	shingle applications	

LOCTITE ABLESTIK ICP 8118 is an electrically conductive adhesive designed for applications that require a very fast cure at low temperatures. It is ideally suited for high throughput photovoltaic dispense processes and applications where high adhesion strength is desired. Low and stable contact resistance is achieved on noble metallization during reliability testing.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity@ Shear rate of 15 s⁻¹, mPa⋅s (cP)	15,500
Thixotropic Index	2.6
Specific Gravity, g/cc	1.9
Shelf Life @ -25 to -18°C, days	180
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE Cure Schedule

10 to 15 seconds @ 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

Storage Modulus, DMA:

@ 0°C	N/mm² (psi)	650 (94,300)

@ 25°C N/mm² 300 (psi) (43,511)

Electrical Properties

Volume Resistivity, ohm-cm:

Sample cured 15 minutes @ 150°C 4×10⁻⁰³

TYPICAL PERFORMANCE OF CURED MATERIAL

Sample oven cured 15 minutes @ 150°C.

Shear Strength:

Die Shear Strength, Kg		6.6
Tensile Lap Shear Strength	N/mm²	9.6
	(psi)	(1,390)

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. Thaw times depend on syringe size.
- 3. Consult handling guide for more information.

DIRECTIONS FOR USE

The rheology of this material makes it suitable for use in high speed needle dispense and jet applications.

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: -25 to -18°C. Storage below -25°C or greater than -18°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 psi x 145 = N/mm² MPa = N/mm² 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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