

LOCTITE ABLESTIK JM 2500

December 2016

PRODUCT DESCRIPTION

LOCTITE ABLESTIK JM 2500 provides the following product characteristics:

Technology	Cyanate Ester
Appearance	Silver
Cure	Heat cure
Product Benefits	Low stress
	Solvent-free
	One component
	 Low modulus of elasticity
	 Excellent adhesion
	 Improved hot strength
	Excellent reliability
	 Resistance to "popcorn" cracking and
	delamination
	Low ionic impurities
Application	Die attach
Typical Package	TQFP, TSOP, MQFP and SOJ
Application	

LOCTITE ABLESTIK JM 2500 adhesive is designed for bonding large ICs in thin plastic packages.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity, HAAKE, mPa·s (cP):

@ Shear rate of 40 s·1

Work Life@ 25°C, Viscosity increase by 100%, hours

16

Storage Life @ -40°C (from date of manufacture), 365

days

Flash Point - See SDS

TYPICAL CURING PERFORMANCE

Cure Schedule

15 minute ramp + 1 hour soak @ 175°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 ppm: Chloride (CI-) 1 Sodium (Na+) 1 Potassium (K+) 2 Fluorine (F) Glass Transition Temperature, TMA penetration 26 mode, °C Coefficient of Thermal Expansion, TMA expansion mode: Below Tg, ppm/°C Above Tg, ppm/°C 220 Tensile Modulus, DMTA, GPa 2.6 Thermal Conductivity @ 121°C, Laser Flash, W/(m-K) 0.39

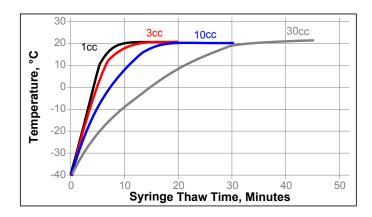
GENERAL INFORMATION

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be used with chlorine or other strong oxidizing materials.

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

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. Refer to the Syringe Thaw time chart for the thaw time recommendation.
- DO NOT open the container before contents reach 22°C temperature. Any moisture that collects on the thawed container should be removed prior to opening the container.
- DO NOT re-freeze. Once thawed to 22°C, the adhesive should not be re-frozen.





DIRECTIONS FOR USE

- Thawed material should immediately be placed on dispense equipment for use.
- 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.
- Adhesive must be completely used within the product's recommended work life.
- Silver-resin separation may occur if the adhesive is left out at room temperature, beyond the recommended work life.
- 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.
- 6. Alternate dispense amounts may be used depending on the application requirements.
- 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 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

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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