

LOCTITE ABLESTIK 2105

April 2016

PRODUCT DESCRIPTION

LOCTITE ABLESTIK 2105 provides the following product characteristics:

Technology	Ероху
Appearance	Clear, colorless
Cure	Heat cure or Room temperature
Product Benefits	Medium viscosity
	 Solvent-free
	 Good adhesion
	 Good insulator
	 High glass transition
	 Provides environmental resistance
	 Room temperature cure capability
Application	Non-conductive adhesive
Operating Temperature	-70 to 140 °C
Mix Ratio, by weight -	100 : 25
Resin : Hardener	
Surfaces	Glass, Ceramics, Plastics and Metals
Typical Assembly	Fiber optic connectors, Medical device
Applications	assembly, Structural laminating or High performance aerospace and electronic applications

LOCTITE ABLESTIK 2105 medium viscosity epoxy adhesive is recommended for applications where dependable, reputable performance is required.

LOCTITE ABLESTIK 2105 passes cytotoxicity testing, Elution Test ISO 10993-5.

TYPICAL PROPERTIES OF UNCURED MATERIAL

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Mixed Viscosity @ 25 °C, mPa·s (cP)	6,000
Thixotropic Index	1.0
Specific Gravity, mixed	1.12
Pot Life @ 25°C, minutes	20
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE

Cure Schedule

1 to 4 hours @ 65°C or 24 hours @ 25°C

Percent Volatiles

VOC, grams/liter

3.52

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	
Hardness, Shore D, sample cured 1 hour @ 65°C	84
Coefficient of Linear Thermal Expansion, ppm/°C	55
Glass Transition Temperature (Tg), °C	120
Water Absorption (24 hr immersion), %	0.24
Elongation, %	4
Reactive solids contents, %	100
Electrical Properties	
Dielectric Strength, volts/mil	420
Dielectric Constant / Dissipation Factor @ 25°C:	
@ 1KHz	4.3/0.02
Volume Resistivity @ 25°C, ohm-cm	2×10 ¹⁴

TYPICAL PERFORMANCE OF CURED MATERIAL

Shear Strength

Lap Shear Strength:

Aluminum to Aluminum:		
1 hour @ 65°C	N/mm² 15	
	(psi) (2,300)	
4 hours @ 65°C	N/mm² 19	
	(psi) (2,800)	

GENERAL INFORMATION

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

DIRECTIONS FOR USE

- 1. Carefully clean and dry all surfaces to be bonded
- Remove clamp and thoroughly mix the LOCTITE ABLESTIK 2105 epoxy adhesive system components in the handy BIPAX mixing-dispenser package until color is uniform throughout
- Apply this completely mixed adhesive to the prepared surfaces, and gently press these surfaces together. Contact pressure is adequate for strong, reliable bonds; however, maintain contact until adhesive is completely cured
- 4. Some ingredients in this formulation provided in BIPAX, TRA-PAX and bulk packaging may crystallize when subjected to low temperature storage. A gentle warming cycle of 52°C for 30 minutes prior to mixing components may be necessary. Crystallized epoxy components do not react as well as liquid components and should be redissolved prior to use for best results

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: ≤27 °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

(°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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