

LOCTITE ABLESTIK 281

April 2016

PRODUCT DESCRIPTION

LOCTITE ABLESTIK 281 provides the following product characteristics:

Technology	Ероху
Appearance	Black thixotropic paste
Cure	Heat cure
Product Benefits	One component
	Thixotropic
	 Solvent-free
	 Good chemical resistance
	 Low coefficient of thermal
	expansion
	 High thermal conductivity
	 High electrical insulation
Application	Assembly
Operating Temperature	-60 to +205 °C
Key Substrates	Metals , Glass and Plastics

LOCTITE ABLESTIK 281 epoxy adhesive is formulated for use in applications requiring excellent thermal conductivity.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Density, g/cm³ 2.3
Shelf Life @ 25°C (from date of manufacture), days 90
Flash Point - See SDS

TYPICAL CURING PERFORMANCE

Gel Time

10 minutes @ 120°C 2 minutes @ 150°C 30 seconds @ 180°C

Cure Schedule

4 hours @ 80°C or 1 hour @ 120°C or 30 minutes @ 150°C or 15 minutes @ 180°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 Linear Thermal Expansion , ppm/°C	32
Thermal Conductivity, W/(m-K)	
Water Absorption, 24-hr boil, %	

Electrical Properties

Volume Resistivity, ohm-cm 1×10¹⁵

TYPICAL PERFORMANCE OF CURED MATERIAL

Shear Strength

Tensile Lap Shear Strength:

@ 25°C	N/mm² (psi)	14.5 (2,103)
@ 120°C	N/mm²	, ,
	(psi)	(1,160)

GENERAL INFORMATION

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

DIRECTIONS FOR USE

- Roughen mating surfaces with emery cloth or other suitable abrading material to remove oxidation, scale, paint or other foreign matter and degrease with solvent such as Toluene or Trichlorethylene.
- 2. Apply LOCTITE ABLESTIK 281.

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 °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

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Note:

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