

LOCTITE D 125 F 5

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PRODUCT DESCRIPTION

LOCTITE D 125 F 5 provides the following product characteristics:

Technology	Ероху
Appearance	Yellow
Components	One part - requires no mixing
Product Benefits	Low exotherm
	 Low water absorption
	 High hot strength
	 High green strength
	 No sag during cure
	 No moisture absorption when
	uncured
	 No corrosion after cure
	Low temperature cure
Cure	Heat cure
Application	Electronic Material, Component
	assembly
Operating Temperature	120 °C
Typical Assembly	SOICs and PLCCs
Applications	

LOCTITE D 125 F 5 surface mount adhesive is designed for use in high-speed pneumatic and positive displacement dispensers.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Calculated Yield (Bingham), N/m ²	700
Density, g/cm ³	1.4
Fineness, µm	<50
Storage Life (from date of manufacture):	
@ 0 to 8°C, days	180
@ 18 to 25°C, days	60
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE

IR or Convection Conveyor Oven

20 minutes @ 100°C or 7 minutes @ 110°C or 2.5 minutes @ 120°C

Convection Box Oven

30 minutes @ 100°C or 20 minutes @ 110°C or 10 minutes @ 120°C LOCTITE D 125 F 5 can be cured using infrared systems or convection oven.

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, 10-6 K-1	
Glass Transition Temperature, °C	73
Degree of Conversion @ 125°C, %	>90
Linear Shrinkage on Cure, %	0.5
Hardness, Shore D	>80
Thermal Conductivity, W/(m-K)	0.3

Electrical Properties

Volume Resistivity, ohm-cm	>1×10 ¹⁴
Dielectric Constant	3.5

TYPICAL PERFORMANCE OF CURED MATERIAL

Tensile Lap Shear Strength	N/mm²	>6
	(psi)	(>870)

GENERAL INFORMATION

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

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.

DIRECTIONS FOR USE

- 1. Store in a cool, clean and dry area.
- 2. Usable shelf life may vary depending on method of application and storage conditions.
- 3. LOCTITE D 125 F 5 stored at low temperatures must be allowed to return to room temperature before use. This normally takes 8 to 12 hours.
- For board and equipment cleaning we advise the use of LOCTITE STYCAST CLEANER 50306.
- 5. Use of alcohol for cleaning is not recommended.



STORAGE:

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

Optimal Storage: 0 to 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

 $(^{\circ}C \times 1.8) + 32 = ^{\circ}F$ $kV/mm \times 25.4 = V/mil$ mm / 25.4 = inches $N \times 0.225 = lb/F$ $N/mm \times 5.71 = lb/in$ $psi \times 145 = N/mm^2$ $MPa = N/mm^2$ $N \cdot m \times 8.851 = lb \cdot in$ $N \cdot m \times 0.738 = lb \cdot ft$ $N \cdot mm \times 0.742 = oz \cdot in$ $m \cdot m \times 0.742 = oz \cdot in$

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. Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

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Reference 1

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Loctite: 1189462