

LOCTITE D 125 F 3

November 2014

PRODUCT DESCRIPTION

LOCTITE D 125 F 3 provides the following product characteristics:

Technology	Ероху		
Appearance	Yellow		
Components	One-component		
Product Benefits	Low exotherm		
	 Low water absorption 		
	No stringing		
	High hot strength		
	High green strength		
Cure	Heat Cure		
Application	Surface mount adhesive		
Operating Temperature	120 °C		
Typical Assembly	Chip capacitors, Chip resistors, SOTs,		
Applications	SOICs and PLCCs		

LOCTITE D 125 F 3 surface mount adhesive is designed for high speed dispensing. This material is formulated to dispense easily without stringing and not sag during cure. It is specifically designed for use on high speed pneumatic and positive displacement dispensors.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Fineness, µm	<50
Density, g/cm ³	1.35
Plastic Viscosity (Casson) Cone & Plate, mPa·s (cP)	38,000
Calculated Yield (Casson), N/m ²	260
Shelf Life:	
@ 0 to 8°C, days	183
@ 18 to 25°C, days	61
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

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

F	hysical Properties	
	Hardness, Shore D	>80
	Coefficient of Thermal Expansion , ppm/°C	75

Glass Transition Temperature, °C	72	
Thermal Conductivity, W/(m-K)	0.3	
Degree of Conversion @ 25°C, after 3 minutes, %	>90	
Linear Shrinkage on Cure, %	0.5	
Electrical Properties		

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Dielectric Constant	3.5
Volume Resistivity, ohm-cm	>1×10 ¹⁴
Electromigration (Bellcore)	Pass

TYPICAL PERFORMANCE OF CURED MATERIAL

Tensile Lap Shear Strength	N/mm² >8		
	(psi)	(1,160)	

GENERAL INFORMATION

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

THAWING:

1. Allow container to reach room temperature before use, normally 8 to 12 hours.

DIRECTIONS FOR USE

- 1. Complete cleaning of the substrates or other objects to be coated should be cleaned in accordance with accepted industry pratices. CLEANER 50306 have been found satisfactory as cleaning agents.
- 2. 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 8 °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

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.



Reference 0.0

Conversions

 $(^{\circ}C x 1.8) + 32 = ^{\circ}F$ kV/mm x 25.4 = V/mil mm / 25.4 = inches N x 0.225 = lb N/mm x 5.71 = lb/in N/mm² x 145 = psi MPa = N/mm² MPa x 145 = psi 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 and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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