

LOCTITE ABLESTIK ATB F125E

March 2017

0.78

PRODUCT DESCRIPTION

LOCTITE ABLESTIK ATB F125E provides the following product characteristics:

Technology	Epoxy Film
Appearance	White
Cure	Ultraviolet (UV) light or Heat cure
Product Benefits	 Excellent workability High reliability Ideal modulus for wide range of package sizes Meets thin wafer requirements Recommended for small die size packages Consistent dicing and die pickup for small die applications Long work life, up to 4 months
Adhesive Thickness	25
Application	Die attach
Typical Package Application	Discrete, IC and Chip stack packages

LOCTITE ABLESTIK ATB F125E adhesive film is formulated for use in wafer lamination processess or as a preform decal.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Work Life @ 25°C, days:	
Before lamination, days	30
After lamination to die attach, days	90
Shelf Life @ 5°C (from date of manufacture), days	365
Flash Point - See SDS	

TYPICAL UV IRRADIATION

UV Light

UV Wavelength, nm (UVA)	365
UVA Dosage, mJ/cm²	50 to 100

TYPICAL CURING PERFORMANCE Cure Schedule

1 hour @ 130°C

The above cure profile is a guideline recommendation. 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

P	hysical Properties			
Coefficient of Thermal Expansion, , TMA:				
	Below Tg, ppm/°C		37	
	Above Tg, ppm/°C		83	
	Glass Transition Temperature (Tg) by D	MTA, °C	215	
	Tensile Modulus, DMTA:			
	@ -65 °C	N/mm²	-,	
	0.05.00	(psi)	,	
	@ 25 °C	N/mm²	5,256 (762,318)	
	@ 150 °C	N/mm²	, ,	
	© 100 0		(158,381)	
	@ 200 °C	N/mm²	368	
		. ,	(53,373)	
	@ 250 °C	N/mm²		
	Extractable Ionic Content, :	(psi)	(26,831)	
	Chloride (Cl-)		19	
	Sodium (Na+)		2	
	Potassium (K+)		1	
	Weight Loss @ 200°C, TGA, wt %		0.27	
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TYPICAL PERFORMANCE OF CURED MATERIAL

Die Shear Strength:
2.5 X 2.5 mm (100 x 100 mil), Si die on BT substrate:
@ 260°C, kg-f/die
3.1

GENERAL INFORMATION

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

Not for product specifications

Moisture Absorption, wt%

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

- Ensure all surfaces to be bonded are free from surface contamination.
- The reels should remain in the moisture-resistant package until they are fully thawed to room temperature, to avoid moisture absorption.
- Adhesive must be completely used within the product's recommended work life.
- 4. Remove the tape reel from the moisture-resistant package and load into the tape application machine.
- Store unused adhesive film in the original sealed moistureresistant package until needed.



STORAGE:

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

Optimal Storage: 5°C. Storage below 0°C or greater than 5°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/F 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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