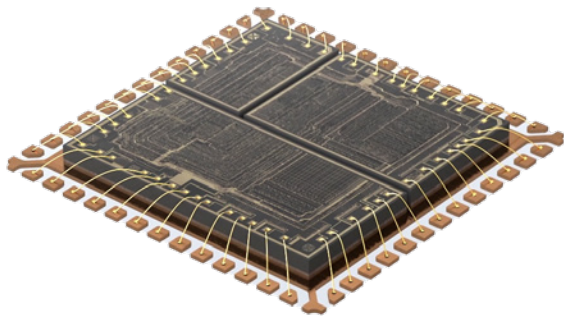


**LOCTITE®**

# ENABLING **SMALLER, FASTER**

**MORE FUNCTIONAL DEVICES**

**LOCTITE® ABLESTIK ATB 125GR delivers excellent performance for demanding semiconductor applications**



**LOCTITE® ABLESTIK ATB 125GR**  
Non-conductive die attach film for  
lead-frame & laminate.

Henkel's LOCTITE® ABLESTIK ATB 125GR is a non-conductive die attach film for high density, high-reliability semiconductor packages, enabling miniaturization, thinner dies, and tighter die to pad ratios. This adhesive meets automotive Grade 0 reliability standards, provides broad application flexibility, and delivers excellent performance for demanding semiconductor applications.

**Key Applications:**

- › Widely used in wirebond packages for consumer, automotive and industrial applications
- › Compatible with Cu, Ag and PPF metal leadframes and laminate substrates
- › Suitable for die sizes from 0.5 mm x 0.5 mm to 3.0 mm x 3.0 mm
- › High density packages: MCM, MCP, SiP, Hybrid PoP



Henkel Adhesive Technologies

## Technical Information

Application Method	Die Attach Film
Color	White Yellow
Adhesive Thickness	25 µm, customizable
Wafer Size	8, 12 inch.
Glass Transition Temperature, $T_g$ (°C)	$T_{g1}$ : 82
	$T_{g2}$ : 306
Coefficient of Thermal Expansion (ppm/°C)	Below $T_g$ : 82
	Above $T_g$ : 140
Tensile Modulus, DMA (N/mm <sup>2</sup> )	-65°C: 5,385
	25°C: 3,205
	150°C: 281
Moisture Absorption (WT%)	200°C: 177
	1.53
Die Shear Strength, BT substrate at 260°C (kg-f/die)	4.9
Optimal Storage	5°C

LOCTITE® ABLESTIK ATB 125GR, with excellent workability and a wide process window, has exceptionally strong bonds after cure.

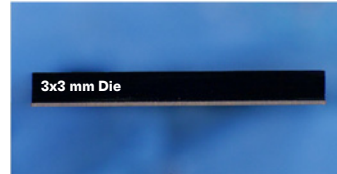


Figure 1: Dicing - No Burr, no pick and place errors

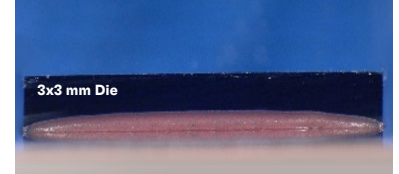


Figure 2: Fillet Height (30%), strong bond after cure

### Key Benefits:

- › High reliability for small to medium size die (0.5 mm x 0.5 mm to 3.0 mm x 3.0 mm)
- › Robust reliability performance in varied packages to simplify BOM management
- › Reduce material waste

### Key Features:

- › MSL1 on Cu Leadframe
- › MSL2 on Ag or PPF Leadframe
- › Low Ionics for robust performance in packages with Cu bonding wires
- › Low modulus at room temperature and low CTE
- › High modulus at wire bonding temperature
- › BPA-free after cure
- › Excellent workability and a wide process window

## Want to find out more about next-generation ncDAF technology designed for high reliability?

Get in touch with our technology specialists to learn about our portfolio of advanced die attach film materials.

[henkel-adhesives.com/electronics](https://henkel-adhesives.com/electronics)



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### Scan the QR code above to access the Technical Data Sheet.

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