

# LOCTITE®

## LOCTITE® ABLESTIK NCA 3218 HENKEL SOLUTIONS FOR ADAS ACTIVE ALIGNMENT ADHESIVES

The next generation dual cure active alignment adhesive to ensure reliability of automotive high-resolution cameras & LiDARs



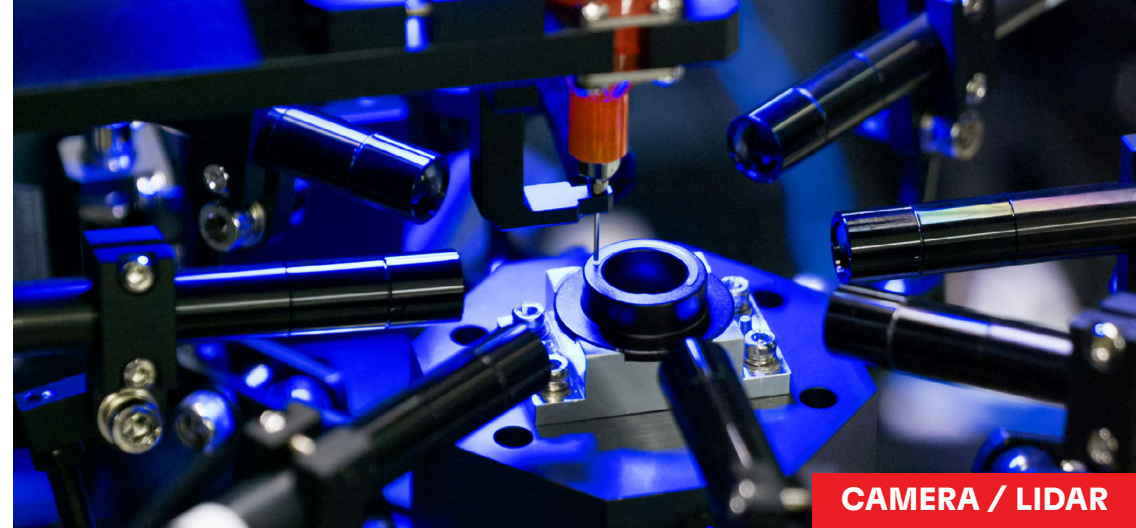
### Benefits

- Low and consistent shrinkage
- High T<sub>g</sub> and low CTE
- Long-term robust & reliable performance
- Excellent adhesion to PCB, various plastics (PBT, PPS) & aluminum substrates
- Optimized blocking to prevent unintended light penetration
- UV & heat dual cure
- Good dispensing capability

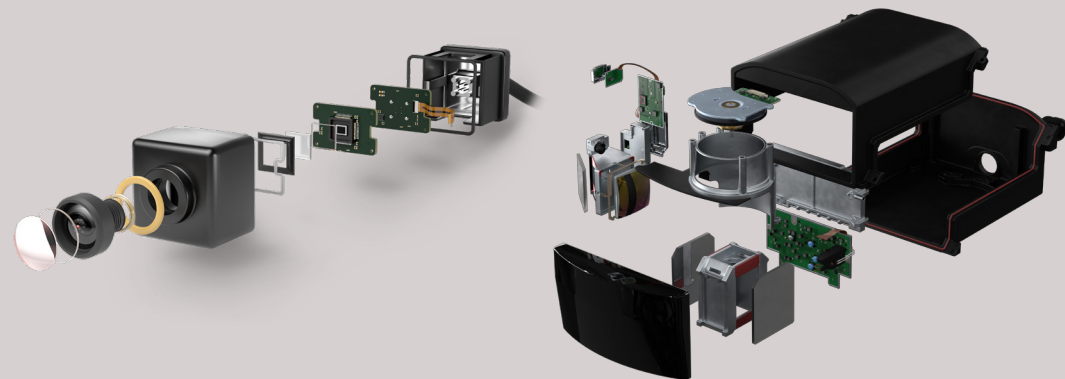


### Sustainability Value

- SVHC free, antimony free, REACH compliant
- Very low outgassing



CAMERA / LIDAR





# LOCTITE<sup>®</sup> ABLESTIK NCA 3218

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### Curing Performance

Typical Cure	Light Source and Condition	UV Wavelength (nm)	Light Intensity (mW/cm <sup>2</sup> )	UV Exposure Time	Secondary Heat Cure Process
UV + Heat	UV LED	365	200 – 1,000	< 5 seconds	85°C x 60min 100°C x 30min 120°C x 20min

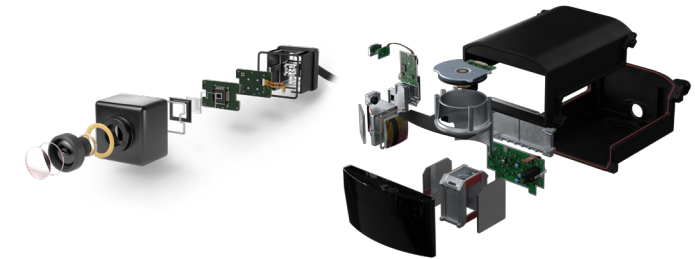
Curing schedule is depending on total curing energy

### Product Properties

Properties	Method	Typical Values	Properties	Method	Typical Values
Tg (°C)	DMA	215°C	Outgassing	Weight loss by Tga, 100°C x 60 min	0.4%
CTE α 1 (ppm/K) Average 25 to 125°C	TMA	25	Water Absorption (%)	240 hours, 85°C/85% rh	0.8
E'(Flex.) at 25°C (MPa)	DMA	9,000	Cure Depth	mm (500 mW/cm <sup>2</sup> 5s)	1.7
Hardness	Shore D	94	Adhesion (MPa)	DSS on Anodized Al	> 25
Modulus at 25°C, GPa	DMA	9	Adhesion (MPa)	DSS on PPS	> 25
Cure Shrinkage (Vol. %)	Pycnometer	140	Storage	-	- 20 °C

### Typical Applications

- Designed for lens to barrel and barrel to PCB bonding applications for camera & LiDAR



### Configurations Available

- 170 cc syringe

Reach out to our experts to partner up for active alignment adhesive applications in automotive and industrial electronics.

CONTACT US TO LEARN MORE

**Europe**  
Germany  
Henkel AG & Co. KGaA (Headquarters)  
Henkelstraße 67, 40589 Düsseldorf

**Asia-Pacific**  
China  
Henkel (China) Co., Ltd.  
No. 928 Zhangheng Road, Pudong New District  
201203 Shanghai

**Americas**  
U.S.A.  
Henkel Corporation  
Madison Heights, 32100 Stephenson Highway  
Madison Heights, MI 48071



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