

LOCTITE® 3296 HENKEL SOLUTIONS FOR ADAS ACTIVE ALIGNMENT ADHESIVES

Next generation, high reliability, dual cure, active alignment adhesive for high resolution ADAS & LiDAR applications



Benefits

- Fast UV & heat cure
- \bullet High T_g and low CTE for automotive grade applications
- Low and consistent shrinkage
- Long-term robust & reliable performance
- Excellent adhesion to standard substrates (AI, FR4)
- High UV cure depth



Sustainability Value

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

Leverage Henkel's broad technology portfolio and application know-how to strengthen your automotive ADAS Technology.











LOCTITE® 3296

Next generation, high reliability, dual cure, active alignment adhesive for high resolution ADAS & LiDAR applications

Curing Performance

Typical Cure	Light Source and Condition	UV Wavelength (nm)	Light Intensity (mW/cm²)	UV Exposure Time	Secondary Heat Cure (30 minutes)	
UV + Visible light	LED	365	1,000	3 seconds*	120 °C*	

* Shorter UV or lower heat settings possible

Product Properties

Properties	Method	Typical Values	Properties	Method	Typical Values
Tg (°C)	DMA	189°C	Outgassing	TML < 1.00% CVCM < 0.10%	passes
CTE α 1 (ppm/K) Average 25 to 125°C	TMA	22	Water Absorption (%)	1,000 hours, 85 °C/85 %rh	0.7
Modulus at 25 °C (GPa)	DMA	10.9	Cure Depth	mm	>3
			Adhesion (MPa)	DSS on plasma treated Al	>10
Hardness	Shore D	94	Adhesion (MPa)	1,000 hours, 85 °C/85 %rh DSS on plasma treated Al	>10
Cure Shrinkage (Vol. %)	Pycnometer	1.0	Storage	-	–25 °C to –18 °C for 6 months



Typical Applications



Configurations Available

- 30 cc syringe
- 55 cc syringe
- 6 oz cartridge

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

Americas

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

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



The data contained herein is intended as reference only. Some products / package sizes may not be available in your country or may have a lead time. Please contact your local Henkel subsidiary for assistance and recommendation on specifi cations and applications of these products. @ designates a trademark of Henkel AG & Co. KGaA or its affi liates, registered in Germany and elsewhere @ Henkel AG & Co. KGaA, 2023 (8/2023)

