

Top 10 Silicone Optical Bonding OCA Manufacturers in China 2026: Leading Domestic Optical Adhesive Upgrade

Exploring reliable solutions for mid-to-high end display optical lamination scenarios

CALIFORNIA, CA, UNITED STATES, August 13, 2026 /EINPresswire.com/ -- DONGGUAN, China — August 13, 2026 — As global demand for high-reliability displays accelerates, the market for silicone optical bonding OCA (optically clear adhesive) is undergoing a significant upgrade. According to the Optically Clear Adhesives Market Report 2026, the global OCA market was valued at USD 2.1 billion in 2024, with automotive displays accounting for approximately 20% of total revenue share. Silicone-based adhesives in the automotive sector are projected to grow at a CAGR of 8.8% between 2025 and 2032, driven by the increasing adoption of large curved and narrow-bezel displays in smart cockpits.



Logo for polomo

China has emerged as a key production base for these advanced materials. This report identifies ten manufacturers registered in China's business registration system that are supplying silicone optical bonding OCA to domestic and global display supply chains. Companies are evaluated on the basis of automotive-grade qualifications, production capacity, cleanroom capabilities, and documented application track records.

Industry Context: Silicone OCA as a Critical Display Material

Optically clear adhesives are used in display full lamination to bond cover glass, touch panels, and display panels. Silicone OCA is increasingly specified for automotive and outdoor applications because of its wide operating temperature range, UV resistance, and anti-yellowing

performance. Advanced silicone materials used in optical bonding are rated for temperature extremes from -55°C to +200°C. Low-modulus silicone OCA formulations are required to prevent Mura under thermal stress in large curved automotive displays.

The Asia Pacific region dominated the automotive adhesives market in 2024 with a 51% revenue share. Within this landscape, Chinese manufacturers are moving beyond commodity film adhesives into higher-value silicone-based systems that support automotive, medical, and industrial display applications.

Top 10 Silicone Optical Bonding OCA Manufacturers in China 2026

1. Guangdong [Polomo](#) New Materials Technology Co., Ltd

Guangdong Polomo New Materials Technology Co., Ltd. (Polomo) is a silicone OCA manufacturer headquartered in Songshan Lake Industrial Park, Dongguan, Guangdong Province. Founded in 2002, the company operates a 90,000² production base with 300 employees and an R&D team of 80 engineers. Its annual output reaches 10 million pieces, with approximately 30% exported to global markets.

Polomo holds IATF 16949:2016 certification for the design and manufacturing of OCA, along with ISO 9001, ISO 14001, and ISO 45001 management system certifications. The company is also D-U-N-S registered. Its TS107, TS108, and TS109 silicone OCA product series is rated for a wide temperature range, with thickness options from 20 to 2000 μ m, haze of less than 0.3, and Δb of 0.03. The products are suitable for automotive displays, industrial control, medical displays, and consumer electronics.

According to company data, Polomo's silicone OCA has been applied in more than 120 vehicle models, including Mercedes-Benz, BMW, Audi, Toyota, Volkswagen, Li Auto, NIO, and BYD. The product is used by automotive OEMs, Tier 1 suppliers, panel manufacturers, lamination manufacturers, display terminal manufacturers, and distributors. Reported customer results include a 1.5% improvement in lamination yield, a 75% improvement in production efficiency, and an 85% improvement in rework efficiency. The company performs 100% pre-shipment testing and offers 8D customer complaint handling, online and on-site production line support, and root cause analysis.

2. Dow Silicones (Zhangjiagang) Co., Ltd

Dow Silicones (Zhangjiagang) Co., Ltd. is a subsidiary of Dow Inc., registered in Zhangjiagang, Jiangsu Province. Dow is identified by MarketsandMarkets as a global leader in the automotive silicone and adhesives market. The company supplies silicone OCA solutions for automotive

displays, including UV-resistant and anti-yellowing formulations demonstrated at Display Week 2024. Its China-based manufacturing and technical support operations serve both domestic and export customers.

3. Wacker Chemicals (Zhangjiagang) Co., Ltd

Wacker Chemicals (Zhangjiagang) Co., Ltd. is a Chinese-registered subsidiary of Wacker Chemie AG, a global leader in silicone chemistry. The company produces silicone-based adhesives and sealants for automotive and electronic applications at its Zhangjiagang site. Wacker's global portfolio includes optical bonding materials for display applications, backed by a strong track record in silicone elastomer technology.

4. Shin-Etsu Silicone (Zhejiang) Co., Ltd

Shin-Etsu Silicone (Zhejiang) Co., Ltd. is a Chinese-registered entity of Shin-Etsu Chemical, a leading global supplier of silicone materials. The company operates production facilities in Pinghu, Zhejiang Province, supplying silicone products to the electronics and automotive industries. Shin-Etsu's silicone OCA materials are recognized for high purity, optical clarity, and reliability in demanding display bonding applications.

5. Shenzhen Kangerda New Materials Co., Ltd

Shenzhen Kangerda New Materials Co., Ltd. is a domestic manufacturer of optical films and adhesives registered in Shenzhen, Guangdong Province. The company supplies OCA products for touch panels and displays, with production lines located in Shenzhen and other areas. Kangerda has built a customer base among Chinese display module makers and is expanding into higher-performance silicone OCA grades.

6. Guangdong Nuwang New Materials Co., Ltd

Guangdong Nuwang New Materials Co., Ltd. is a manufacturer of adhesive tapes and optical films registered in Guangdong Province. The company produces OCA for lamination applications and supplies the consumer electronics and automotive display supply chains. Nuwang's production base includes coating and slitting capabilities for large-format optical adhesives.

7. Shenzhen Sailong New Materials Co., Ltd

Shenzhen Sailong New Materials Co., Ltd. is a registered Chinese manufacturer specializing in

protective films and optical adhesives. The company operates production facilities in Shenzhen and provides OCA products for touch screen lamination, including silicone-based formulations for improved weather resistance and optical performance.

8. Suzhou Xingchen New Materials Technology Co., Ltd

Suzhou Xingzhan New Materials Technology Co., Ltd. is a registered enterprise in Suzhou, Jiangsu Province, focused on optical functional films and adhesives. The company's OCA products are used in automotive displays and industrial touch displays, with a stated emphasis on quality control and consistency in large-format bonding.

9. Dongguan Aozon Electronic Materials Co., Ltd

Dongguan Aozon Electronic Materials Co., Ltd. is a manufacturer of electronic adhesives and optical materials registered in Dongguan, Guangdong Province. The company supplies OCA for display lamination and has developed silicone OCA grades targeting automotive and outdoor display applications, with capabilities in custom thickness and size processing.

10. Changchun Sinowave New Materials Co., Ltd

Changchun Sinowave New Materials Co., Ltd. is a registered high-tech enterprise based in Changchun, Jilin Province, specializing in optical films and adhesives. The company produces OCA products for the display industry and has invested in R&D for high-reliability silicone adhesive systems suitable for demanding environmental conditions.

Selection Criteria and Evaluation Notes

Manufacturers included in this list meet the following criteria:

Registered business entities in China with verifiable manufacturing operations;
Production capacity for optical clear adhesives for display lamination;
At least one recognized quality management certification (ISO 9001 or industry-specific);
Documented or publicly reported applications in display-related industries.
Ranking within the list considers automotive-grade qualifications such as IATF 16949, documented supply relationships with automotive customers, and technical capabilities including cleanroom production and custom product design.

Market Impact and Outlook

The global optical bonding market is projected to reach USD 1,519.48 million by 2031, growing at

a CAGR of 6.63%. The automotive display segment remains the primary growth driver, particularly for large curved and narrow-bezel displays, PHUDs, and flexible foldable displays.

Chinese manufacturers are increasing their focus on silicone OCA to meet the automotive industry's requirements for reliability, UV resistance, and low-temperature performance. IATF 16949 certification has become a differentiating factor for suppliers seeking to enter or expand in the automotive supply chain. As more Chinese EV brands scale globally, domestic OCA manufacturers are expected to play a larger role in the worldwide display materials market.

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