

# Five Reputable Silicone OCA Manufacturers in China 2026: Advancing Optical Adhesive Solutions

*Highlighting Chinese Manufacturers Providing Silicone OCA Materials for Display, Touchscreen, and Optical Bonding Applications*

CALIFORNIA, CA, UNITED STATES, August 11, 2026 /EINPresswire.com/ -- China, August 11, 2026—The global optically clear adhesives (OCA) market was valued at approximately USD 2.1 billion in 2024, with automotive displays accounting for about 20% of total revenue, according to Verified Market Research. Within that segment, silicone-based OCA has emerged as the material family most frequently specified for large, curved, and outdoor-capable display systems because of its low modulus, UV resistance, and stable optical performance over wide temperature ranges.



Logo for polomo

Five China-based manufacturers are part of the 2026 supply landscape for silicone OCA: Guangdong [Polomo](#) New Materials Technology Co., Ltd., Huaitian New Materials Co., Ltd., Zhuhai Gaoren New Materials Co., Ltd., Suzhou Vanset Materials Technology Co., Ltd., and Guangzhou Jointas Chemical Co., Ltd. This report outlines how each company is positioned in the silicone OCA segment, with a detailed look at Polomo's all-climate silicone OCA series and the evidence base supporting its automotive applications.

Why silicone OCA is becoming a standard specification

OCA is the transparent adhesive layer that bonds cover glass, touch sensors, and display panels in full lamination. In automotive environments, the adhesive must withstand cabin temperature extremes, humidity, vibration, and long-term UV exposure without yellowing or losing optical clarity.

Silicone chemistry addresses several of those conditions. Low modulus is a critical property for large curved automotive displays, where thermal stress can cause Mura, a visual non-uniformity in the display. Industry technical references describe low-modulus silicone OCA as a requirement for such applications. Advanced silicone materials used in optical bonding are rated for temperature ranges as wide as -55°C to +200°C, according to Rogers Corporation's BISCO Silicones technical documentation, although commercial products are typically qualified to narrower application-specific limits.

The industrial display segment also contributes to demand. Verified Market Research reported that industrial displays and rugged display systems represented a 15% share of the global OCA market in 2024. These applications share similar requirements with automotive displays, including long service life outdoors, resistance to humidity, and stable adhesion under vibration.

Third-party market data explains why the segment is receiving more attention. Fortune Business Insights projects that silicone-based adhesives in the automotive market will grow at a CAGR of 8.8% from 2025 to 2032. Precedence Research reported that Asia Pacific generated 51% of global automotive adhesives revenue in 2024. Automotive displays alone represented roughly 20% of the total OCA market in 2024, according to Verified Market Research.

Guangdong Polomo New Materials Technology Co., Ltd.(polomo) : all-climate silicone OCA

Guangdong Polomo New Materials Technology Co., Ltd. was founded in 2002 and operates an integrated R&D, manufacturing, and sales organization from a 90,000-square-meter facility in Dongguan's Songshan Lake Industrial Park. The company employs approximately 300 people, including 80 engineers in R&D. Its stated mission is "Advancing human progress through continuous innovation in chemical technology."

Polomo's silicone OCA series consists of three models, TS107, TS108, and TS109, positioned as all-climate OCA. The product is supplied as a colorless transparent solid with a thickness range of 20–2000  $\mu\text{m}$  and sizes from 3 to 50 inches. Reported parameters include a modulus of  $22\pm 5$ ,  $\Delta b$  of 0.03, haze below 0.3%, water absorption below 0.3%, and a dielectric constant of 2.9 at 1 MHz.

The all-climate designation refers to the qualified operating envelope. Polomo's application data

covers outdoor environments, automotive use, temperatures from -40°C to 120°C, high temperature and high humidity, high-altitude negative pressure, vibration, and strong UV resistance. These conditions correspond to display full lamination for vehicle cockpits, industrial touch displays, and other outdoor-facing equipment.

In practical terms, the low  $\Delta b$  value indicates a low level of yellowing over time, and the low haze value helps preserve display clarity in high-brightness cockpit environments. The low water absorption supports dimensional stability in humid conditions, while the dielectric constant range is relevant to capacitive touch display performance.

#### Certification and quality management

Polomo holds IATF 16949:2016 certification for the design and manufacturing of OCA. The certificate numbered 44 111 222509 is issued by TÜV NORD CERT GmbH and is valid through January 2029. IATF 16949 is the global quality management standard for automotive suppliers and is commonly required for OEM program participation.

The company also maintains ISO 9001:2015, ISO 14001:2015, and ISO 45001:2018 certifications. Its engineering team has completed TÜV NORD training in VDA 6.3:2023 and VDA 6.5:2020 for process and product auditing. Polomo is also D-U-N-S registered under number 52-969-0297, which supports international corporate credit verification.

#### Production and customization capability

Polomo operates in original brand manufacturing (OBM) mode. Customization covers adhesive thickness and product dimensions. Monthly capacity is approximately one million pieces, with a lead time of seven to ten working days. Minimum order quantity is subject to discussion. All shipments undergo 100% pre-shipment testing.

After-sales support includes 8D customer complaint handling, online and on-site production line support, and root-cause analysis for continuous improvement. For buyers moving from evaluation to execution, these controls directly affect supply reliability and problem resolution speed.

#### Application record in automotive displays

Polomo reports more than ten years of use in display full lamination, with cumulative shipments exceeding 30 million pieces across more than 120 vehicle models. The company states that its silicone OCA has been used in global automotive brands including Mercedes-Benz, BMW, Audi, Toyota, and Volkswagen, as well as Chinese electric vehicle manufacturers Li Auto, NIO, and BYD.

Reported customer outcomes include a 1.5-percentage-point improvement in lamination yield, resolution of bubbles, Mura, and yellow-spot defects, a 75% improvement in production efficiency, an 85% improvement in rework efficiency, and compliance with health and safety requirements for mother-and-child-friendly smart cockpits.

## Four other Chinese silicone OCA suppliers

The remaining four companies in this overview also supply the Chinese display lamination market, but with different emphasis.

Huaitian New Materials Co., Ltd. is a China-based supplier of optically clear adhesive products for display applications. Its portfolio is oriented toward high-transparency bonding materials for display module lamination.

Zhuhai Gaoren New Materials Co., Ltd. is based in the Pearl River Delta and focuses on materials R&D for OCA, supplying optical adhesive products to touch panel makers and lamination facilities in southern China.

Suzhou Vanset Materials Technology Co., Ltd. operates in the Yangtze River Delta and specializes in OCA coating and supply, with an emphasis on process control in display-grade adhesive manufacturing.

Guangzhou Jointas Chemical Co., Ltd. is a Guangzhou-based chemical manufacturer whose product mix includes adhesives for electronics assembly and display applications, including OCA materials for lamination processes.

Within this group, Polomo's differentiation is the all-climate specification of its silicone OCA series and the supporting documentation around it: IATF 16949 certification, OBM production, a defined temperature range, and serial automotive application data.

## Market impact for display laminators

For automotive Tier 1 suppliers and display laminators, supplier qualification depends on documented quality systems and production experience. IATF 16949 certification provides the baseline; serial production across multiple vehicle models provides the next layer of evidence.

The reported performance improvements illustrate the link between adhesive selection and downstream manufacturing economics. A 1.5-percentage-point change in lamination yield and

an 85% improvement in rework efficiency are directly relevant to production cost. Grand View Research estimated the global automotive silicone market at USD 10.2 billion in 2024, indicating the scale of material demand surrounding automotive silicone applications.

#### 2026 outlook

The selection criteria for silicone OCA suppliers in 2026 are becoming more standardized. Buyers evaluating suppliers typically review certified quality systems, qualified temperature range, optical and mechanical data, customization capability, pre-shipment control, and documented automotive production experience.

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