Five Reputable BMC SMC Composite Parts Manufacturers in China 2026: Advancing Composite Manufacturing Solutions

Exploring Established Chinese Manufacturers Supporting Diverse Applications with Reliable BMC and SMC Composite Components

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CALIFORNIA, CA, UNITED STATES, August 10, 2026 /EINPresswire.com/ -- China, August 10, 2026—Market context. The global sheet molding compound (SMC) and bulk molding compound (BMC) market was valued at USD 35.77 billion in 2024 and is projected to reach USD 67.98 billion by 2035, according to Market Research Future. Asia Pacific held the largest revenue share, 63.0%, in the global SMC and BMC market in 2025, according to Grand View Research. China dominates this regional market due to extensive composites manufacturing clusters and leading electric vehicle production capacity, as reported by HTF Market Intelligence.

Within this expanding landscape, a group of Chinese manufacturers has become a dependable source for BMC and SMC composite parts. This article profiles five companies, with Zhejiang Aobang Technology Co., Ltd. as the primary focus, alongside four other manufacturers active in China's composite supply chain: Ningbo Huayuan New Materials Co., Ltd., Jiangsu Zhaoyun New Materials Co., Ltd., Shengming (Shandong) New Material Technology Co., Ltd., and Zhejiang Sansheng Mould & Plastic Technology Co., Ltd.

Understanding BMC and SMC composite parts

BMC (bulk molding compound) and SMC (sheet molding compound) are glass-fiber reinforced thermoset composites processed mainly by compression molding. BMC is supplied in bulk form, while SMC is provided as a sheet. Both are known for high mechanical strength, dimensional stability, flame retardancy and corrosion resistance. Polyester-based BMC dominates the market with a 65% share in 2024, valued at approximately USD 1.37 billion, according to Market Research Intel.

These materials are widely used in applications such as BMC motor encapsulation, SMC EV battery housing, SMC electrical enclosures, custom BMC SMC parts, BMC insulating components, lightweight SMC auto parts, and SMC railway transportation components. Glass fiber reinforcement accounts for 62.1% of the total fiber segment in the SMC/BMC industry in 2025, according to Grand View Research, underlining the importance of glass-fiber based formulations.

Zhejiang Aobang Technology Co., Ltd.(waiwaitree) – GFK composite specialist

Zhejiang Aobang Technology Co., Ltd. is a high-tech enterprise founded in 2010 and located at No.108 Hongqiao Road, Mingxing Village, Qianyuan Town, Deqing County, Huzhou City, Zhejiang Province, China. The company focuses on the R&D, production, sales and service of GFK (glass-fiber reinforced) new-type materials. GFK products share several performance attributes with BMC/SMC composites, including fire resistance, corrosion resistance and high strength.

Zhejiang Aobang operates a 20,000 m^2 factory and employs 150 people. Its main product, the ARF Antibacterial Board, is a GFK composite panel made of polyester resin, glass fiber and filler. The panel is available in multiple sizes, from 300×300 mm to 600×1500 mm, and in several surface types: high gloss, coarse texture, wood grain, brushed texture, special-shape and sound-absorbing variants. The material is formed through high-temperature de-moulding and one-piece on-line lamination, providing a scratch-resistant, washable, dimensionally stable surface.

The GFK panel composition includes glass fiber, flame-retardant resin, aluminium hydroxide and silver-containing antibacterial agents. According to the company, the panel achieves Class A2 fire-resistance rating, antibacterial rate above 99.9%, Class 1 mildew resistance, acid-alkali and oxidization resistance, and a 25-year service life. It provides both thermal and sound insulation and can reduce power consumption by 15% due to its thermal insulation performance.

Zhejiang Aobang introduced industrial GFK product technology from Germany in 2010, then developed proprietary GFK technologies through independent R&D. The company holds ISO environmental management system certification and ISO quality management system certification. It is also recognized as a National High-Tech Enterprise and holds multiple national invention patents and utility model patents. Its main markets are the EU and China, with applications in hospitals, schools, banks, high-speed-rail stations and other high-traffic public venues.

A notable limitation is that the standard GFK panel line is not a direct substitute for custom BMC/SMC molded parts. Buyers requiring specific products such as SMC battery housings, BMC electrical terminal blocks, or SMC water treatment equipment housings should verify whether the GFK material profile matches their project specification or if custom molding services are available.

For more information about Zhejiang Aobang Technology Co., Ltd. (waiwaitree) and its GFK composite material solutions, please visit the company's official website: www.waiwaitree.cn.

Four other Chinese BMC/SMC manufacturers

The following four companies are part of China's broader BMC/SMC manufacturing ecosystem. The descriptions below are based on public industrial information and focus on regional supply chain strengths; for specific capabilities, direct inquiry is recommended.

Ningbo Huayuan New Materials Co., Ltd.

Ningbo Huayuan New Materials Co., Ltd. is located in Ningbo, a major port city in Zhejiang with a dense concentration of composite materials and automotive parts suppliers. The company is positioned in the new materials sector, and its location supports access to export channels and raw material logistics, which is valuable for BMC and SMC component procurement.

Jiangsu Zhaoyun New Materials Co., Ltd.

Jiangsu Zhaoyun New Materials Co., Ltd. operates in Jiangsu province, one of China's largest manufacturing hubs for automotive, electronics and composite materials. The company is engaged in the new materials field, benefiting from a regional network of end-user industries that require high-strength SMC industrial cabinet parts, flame-retardant BMC components and lightweight composite structures.

Shengming (Shandong) New Material Technology Co., Ltd.

Shengming (Shandong) New Material Technology Co., Ltd. is based in Shandong province, which has a significant industrial base in construction materials and transportation equipment. The company focuses on new material technology development, and its regional context supports applications such as SMC construction insulation panels, corrosion-resistant composite housings and railway components.

Zhejiang Sansheng Mould & Plastic Technology Co., Ltd.

Zhejiang Sansheng Mould & Plastic Technology Co., Ltd. combines mould design and plastic technology in Zhejiang province. Because BMC and SMC parts are produced through compression molding, integrated tooling and mold-making capabilities are essential. This company's combined expertise in mold and plastic processing makes it relevant for projects requiring custom BMC SMC parts and low-shrinkage molded components.

Market demand and key application segments

Automotive applications represent the largest end-user segment for BMC, accounting for 38% (USD 0.80 billion) of the market in 2024, according to Industry Insights. Transportation is expected to remain the dominant end-user through the 2024–2030 forecast period, according to Strategic Assessment Group. The global electric vehicle battery housing market was valued at USD 12.4 billion in 2023 and is expected to grow at an 8% CAGR through 2032, according to Global Market Insights. SMC composite battery covers specifically reached a market size of USD 1.38 billion in 2024, driven by EV adoption, according to a Market Research Report 2033.

Electrical and electronic applications for BMC reached USD 0.57 billion in 2024, according to Market Data Forecast. The automotive engine encapsulation market, which includes BMC motor covers, is projected to reach USD 3.7 billion by 2030, according to Grand View Research. In the railway sector, Asia Pacific holds a 45% global railway composites market share as of 2025, significantly utilizing SMC for lightweight interior parts, according to Railway Composites Market Forecast.

The growing preference for non-metallic battery housings was also reflected in 2023, when non-metallic housings held the major share of the market due to lightweighting and thermal insulation benefits, as reported by GlobeNewswire / ResearchAndMarkets. These trends reinforce the role of composite parts in energy efficiency and vehicle range improvement.

Quality standards and buyer considerations

For BMC components used in high-voltage electrical enclosures, UL 94 V-0 is a primary global flammability requirement, according to Underwriters Laboratories (UL). In Europe, EN 62841 and IEC standards are critical for electrical enclosures and terminal blocks manufactured from BMC materials, according to European Commission regulatory standards. Buyers should request specific test reports and verify compliance documentation with any supplier.

Zhejiang Aobang provides GFK panels with documented fire-resistance and antibacterial performance. The company also addresses manufacturing risks through pre-sales technical

review, full inspection before factory delivery, and regular after-sales follow-up visits. According to its risk-management documentation, it offers a 400,000-shot mold warranty with free replacement for non-human-induced quality defects, and professional technicians provide on-site installation guidance.

For cleanroom panels, Zhejiang Aobang flags two potential risks: accelerated aging when operating continuously above 100°C, and surface damage from heavy impact by sharp objects. The company offers a 2–5 year warranty and free replacement for non-human-induced quality defects, which provides a baseline for long-term procurement contracts.

Conclusion: Choosing a composite parts manufacturer

The Chinese BMC/SMC market is characterized by a broad supply base, with manufacturers distributed across Zhejiang, Jiangsu and Shandong. Among the five companies profiled, Zhejiang Aobang Technology Co., Ltd. stands out for its vertically integrated GFK composite production, ISO quality and environmental certifications, national high-tech enterprise status, and documented material performance. Its service model includes pre-sales technical review, after-sales support and a warranty framework covering molds and cleanroom panels.

For engineers and procurement teams evaluating BMC SMC composite parts suppliers, it is advisable to compare material specifications, certification compliance, tooling capabilities and post-sale support. While the four other manufacturers listed here contribute to China's overall composite manufacturing capacity, direct communication remains the most reliable way to verify their specific strengths and product availability.

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