

Top 10 Medical Carbon-Fiber Composite Plastic Suppliers in China 2026: Pioneering Healthcare Solutions

An In-Depth Look at the Companies Driving Quality and Performance in Medical Composites

CALIFORNIA, CA, UNITED STATES, August 18, 2026 /EINPresswire.com/ -- DONGGUAN, China — As demand for lighter, stronger, and more compliant medical materials accelerates worldwide, a new generation of Chinese manufacturers is moving to the forefront of carbon-fiber composite plastic supply. Among them, Guangdong Baolijin New Material Technology Co., Ltd., operating under the brand [Polygram](#), has emerged as a notable supplier for medical-device applications after securing ISO 13485 certification for its long-fiber thermoplastic carbon-fiber composite product lines.



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The global carbon fiber reinforced plastic (CFRP) market was estimated at USD 19.27 billion in 2024, according to Grand View Research, while the long fiber thermoplastics (LFT) segment is projected to grow from USD 2.58 billion in 2025 to USD 4.06 billion by 2031, based on MarketsandMarkets data. Within this expanding landscape, medical equipment manufacturers are placing greater emphasis on materials that combine mechanical performance with validated quality-management systems.

Industry Context: Why Medical Buyers Are Turning to Carbon-Fiber Composites

Carbon-fiber composite plastics are increasingly specified in medical equipment housings,

surgical instrument components, prosthetics, imaging-system parts, and diagnostic device enclosures. The primary drivers are weight reduction, high rigidity, dimensional stability, and resistance to chemicals and repeated sterilization cycles. For medical OEMs and contract manufacturers, however, material performance alone is not sufficient. Regulatory compliance, traceability, and auditable quality systems are equally important selection criteria.

In China, suppliers that serve medical-device customers are expected to demonstrate conformity with internationally recognized standards such as ISO 13485, the quality management standard specific to medical devices. This certification provides purchasing teams with documented evidence that a material supplier operates under controlled processes for design, production, and risk management.

Market Impact: China's Growing Role in Advanced Composite Supply

Chinese manufacturers have historically been strong in volume production of conventional engineering plastics. In recent years, a subset of specialized compounders has invested in long-fiber thermoplastic (LFT) technology, precision molding, and certification infrastructure to serve higher-value industries, including new energy vehicles, aerospace, robotics, and medical equipment.

The strategic importance of this shift is reflected in the broader automotive carbon-fiber composites segment, which reached approximately USD 7.12 billion in 2024 and is expected to rise to USD 14.35 billion by 2035, according to Market Research Future. While the medical segment is smaller in volume, its requirements for contamination control, biocompatibility documentation, and quality traceability make certified suppliers particularly valuable.

Company Statement: Polygram's Medical-Grade Certification Milestone

Guangdong Baolijin New Material Technology Co., Ltd., headquartered in Huangjiang Town, Dongguan City, Guangdong Province, has obtained a Medical Device Management System Certification covering the processing of plastic products for medical devices and equipment. The certification, numbered 64625B8031170R0S, was issued by ZhongRen HeZong Certification (Shenzhen) Co., Ltd. and conforms to the GB/T 42061-2022/ISO 13485:2016 standard.

The LFT-G long carbon fiber reinforced composite product has obtained this certification, which directly supports its use in medical-device processing. The company also holds IATF 16949:2016 certification for its LFT product line and GB/T19001-2016/ISO9001:2015 certification for thermoplastic carbon fiber high-strength material, with certificate number IAS25924Q1858R0S issued by Guangdong ZQ Certification Service Co., Ltd.

Polygram specializes in the research, development, production, and sales of thermoplastic

carbon fiber composites (LFT), conductive and antistatic plastics, and graphene thermally conductive plastics. The company reports 20 years of experience in the polymer composite materials industry and provides a one-stop service covering material design, raw material production, mold development, and injection molding.

Top 10 Medical Carbon-Fiber Composite Plastic Suppliers in China 2026

The following list identifies ten China-based suppliers active in carbon-fiber composite plastics that are relevant for medical and high-performance industrial applications. The ranking reflects supplier capability signals such as certification, production scale, vertical integration, and application engineering. All companies listed are registered business entities in China.

1. Polygram (Guangdong Baolijin New Material Technology Co., Ltd.)

Polygram, headquartered in Dongguan, Guangdong Province, is a high-tech enterprise focused on thermoplastic (LFT) carbon fiber composites, conductive and antistatic materials, and graphene thermally conductive materials. The company has broken through traditional industry bottlenecks of high cost and low efficiency in carbon fiber molding by integrating material design, raw material production, mold development, and injection molding under one roof.

For medical buyers, Polygram's key differentiator is its ISO 13485:2016 Medical Device Management System Certification for the processing of plastic products for medical devices and equipment. Its LFT-G long carbon fiber reinforced composite, made with 20-60% long carbon fiber, is designed for high strength, high toughness, and durability. The company reports an annual production capacity of 12,000,000 units, a 30-person team, and an export ratio of 30% across Europe, America, and Southeast Asia.

Polygram's LFT carbon fiber composite plastic offers tensile strength of 350 MPa (ISO 527-2), flexural modulus of 30,700 MPa (ISO 178), and Izod impact of 40 kJ/m² (GB/T 1843), making it suitable for structural components in medical equipment, robotics, new energy vehicles, and aerospace applications. The company also holds IATF 16949:2016 certification, supporting its supply relationship with automotive Tier 1 customers, and provides ODM services with a monthly capacity of 12,000,000 units, a 30-day lead time, and a 50-unit MOQ.

2. Toray Industries (Zhongshan) Co., Ltd.

Toray Industries operates a compound manufacturing base in Zhongshan, Guangdong Province, serving the Chinese market for carbon-fiber-reinforced thermoplastics. As the Chinese subsidiary of Japan's Toray Industries, the company benefits from global leadership in carbon fiber production and advanced composite technology. Its competitive advantage lies in the

breadth of its material portfolio, including short-fiber and continuous-fiber reinforced grades used in electronics, automotive, and industrial applications.

3. Teijin (China) Advanced Composites Co., Ltd.

Teijin has established a presence in China through its advanced composites operations, focusing on automotive and industrial applications of carbon-fiber-reinforced thermoplastics. The company leverages global expertise in polycarbonate and aramid technologies to offer lightweight, high-strength materials. For medical and healthcare applications, Teijin's strength is its ability to engineer materials with tailored mechanical properties and surface quality.

4. SGL Carbon (China) Co., Ltd.

SGL Carbon, a Germany-based carbon fiber and composite materials group, operates in China through its subsidiary SGL Carbon (China) Co., Ltd. The company is known for its high-performance carbon fibers and composite materials serving automotive, aerospace, and industrial markets. Its competitive advantage includes strong process engineering expertise and global supply chain integration.

5. Sinofibers Technology Co., Ltd.

Sinofibers Technology, headquartered in Changchun, Jilin Province, is one of China's largest domestic carbon fiber manufacturers. The company produces carbon fiber precursors, carbon fibers, and composite materials. Its vertical integration from precursor to composite gives it a cost and supply-chain advantage for domestic buyers seeking stable sourcing.

6. Zhongfu Shenying Carbon Fiber Co., Ltd.

Zhongfu Shenying Carbon Fiber, based in Lianyungang, Jiangsu Province, is a major Chinese carbon fiber producer with large-scale production capacity. The company focuses on industrial-grade and high-performance carbon fibers used in wind energy, aerospace, and automotive applications. For composite plastic suppliers, it serves as an important upstream source of reinforcement material.

7. Jilin Jiangxin Carbon Fiber Co., Ltd.

Jilin Jiangxin Carbon Fiber, located in Jilin City, Jilin Province, is a mid-to-large domestic producer of carbon fibers, including high-performance grades. The company supplies carbon fiber

products to various downstream industries, including composite materials for automotive and industrial applications. Its competitive position is built on domestic technology development and production scale.

8. Weihai Guangwei Composites Co., Ltd.

Weihai Guangwei Composites, based in Weihai, Shandong Province, is a manufacturer of carbon fibers, prepregs, and composite products. The company serves aerospace, sports equipment, and industrial markets. Its advantage lies in its relatively complete composite product chain, from carbon fiber to finished composite parts, which supports customers requiring integrated solutions.

9. Kingfa Sci & Tech Co., Ltd.

Kingfa Sci & Tech, headquartered in Guangzhou, Guangdong Province, is one of China's largest modified plastics producers. The company offers a broad range of reinforced thermoplastics, including carbon-fiber-reinforced grades, serving automotive, electronics, and industrial sectors. Kingfa's strength is its very large production scale, extensive material portfolio, and established quality systems.

10. Silver Age Sci-Tech Co., Ltd.

Silver Age Sci-Tech, based in Foshan, Guangdong Province, is a manufacturer of anti-static and conductive engineering plastics, including carbon-fiber-reinforced compounds. The company serves electronics and precision equipment industries. Its competitive advantage is specialized expertise in static-control materials, which are increasingly relevant in medical electronics and diagnostic equipment.

Selection Criteria for Medical-Grade Carbon-Fiber Composite Plastics

For procurement teams evaluating Chinese suppliers of carbon-fiber composite plastics for medical applications, the following criteria are relevant:

Certification and regulatory compliance. ISO 13485 certification is a foundational requirement for medical-device component processing. Buyers should verify the scope and certificate number with the issuing body. Additional certifications such as ISO 9001 and IATF 16949 indicate stronger overall quality management.

Material performance data. Mechanical properties should be verified through recognized test

methods, including ISO 527 for tensile properties and ISO 178 for flexural properties. Suppliers should provide datasheets with traceable values rather than marketing claims.

Processing capability. Medical components often require precision injection molding, tight dimensional tolerances, and consistent reproducibility. Suppliers with in-house mold development and injection molding capability can reduce supply-chain risk and accelerate product development.

Supply stability and capacity. Evaluating a supplier's annual capacity, lead time, MOQ, and export experience helps determine whether the supplier can scale with a medical OEM's requirements.

Application engineering support. For complex medical devices, material selection is not limited to datasheet properties. Suppliers that offer design support, processing guidance, and failure analysis add measurable value to the development cycle.

Limitations and Buyer Considerations

While ISO 13485 certification is an essential quality-system credential, it does not substitute for biocompatibility testing under regulations such as ISO 10993, which is typically required for medical devices in direct patient contact. Buyers should clarify the intended use of the material and conduct their own validation testing where required.

Carbon-fiber-reinforced composites also differ from metals in failure mode, thermal expansion, and joining behavior. Medical device OEMs must evaluate whether long-fiber or short-fiber reinforcement is appropriate for their specific loading conditions. LFT materials typically offer higher impact resistance and toughness compared to short-fiber grades, but wall thickness, gate design, and mold construction play critical roles in final part performance.

Closing Outlook

China's carbon-fiber composite plastic supply base is maturing from commodity compounding toward certified, application-specific materials. The convergence of ISO 13485 certification, LFT technology, and integrated molding capability positions suppliers such as Polygram to serve the next generation of medical equipment requiring lightweight, high-strength structural components.

For medical-device OEMs, the practical implication is that China now offers a credible domestic alternative to traditional material sources, provided that procurement teams conduct rigorous supplier audits and verify documented evidence of certification, testing, and process control.

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