

**Recycled Carbon Fiber Market by Type (Milled, Chopped), Source, Manufacturing Process, End-use Industry (Automotive & Transportation, Consumer Goods, Sporting Goods, Industrial, Aerospace & Defense, Marine), and Region - Global Forecast to 2030**

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**Report description:**

The recycled carbon fiber market is estimated to be valued at USD 0.16 billion in 2025 and reach USD 0.31 billion by 2030, at a CAGR of 13.3%. Milled type accounted for the largest share in the recycled carbon fiber market as they exhibit properties nearly identical to virgin carbon fibers and are used to enhance the mechanical, conductive, and chemical resistance properties of thermoplastic and thermoset composites, providing improved dimensional stability and conductivity for diverse industrial applications. Milled recycled carbon fiber is a form of carbon fiber waste that has been processed into very short fibers or fine powder, typically around 60 to 300 micrometers in length. This material is derived from recycled carbon fiber scraps primarily sourced from industries such as aerospace and automotive.

<https://www.marketsandmarkets.com/Images/recycled-carbon-fiber-market-Overview.webp>

"Automotive scrap is projected to register second-highest growth rate during forecast period."

Automotive scrap is expected to register the second-highest growth rate in the market due to the automotive industry's increasing demand for lightweight, strong, and eco-friendly materials. Developed countries, including Germany, the US, and Japan, are widely using eco-friendly products. The EU has mandated that 85% of the materials used in vehicles need to be recycled. They are increasingly used in manufacturing various automotive parts like hoods, wheels, engine components, and structural reinforcements because they offer superior strength-to-weight ratio and corrosion resistance compared to traditional metals such as steel and aluminum. This helps reduce the overall vehicle weight, which directly improves fuel economy and meets stringent

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fuel efficiency and emission regulations. The rise in electric vehicles amplifies this demand further, as lightweight materials extend battery range and enhance vehicle performance.

"Consumer goods industry accounted for the second-largest share in the overall recycled carbon fiber market."

Consumer goods industry accounted for the second-largest share in the recycled carbon fiber market due to the increasing demand for lightweight, high-performance, and cost-effective materials used in manufacturing a wide range of products. Recycled carbon fiber provides electrical conductivity and antistatic characteristics to polymer compositions and coatings used in microelectronics products. The electric conductivity of carbon fiber provides additional performance to plastic material to prevent static load and offer a shield from electromagnetic interference. Due to its performance advantages, recycled carbon fiber is more frequently used in plastic composites for electronics, including notebook PCs, LCD projectors, camera bodies, and lenses. For instance, in 2023 Toray Industries, Inc., collaborated with Lenovo to integrate recycled carbon fiber into the Lenovo ThinkPad X1 Carbon Gen 12 as reinforcement filler for thermoplastic pellets.

"Europe is projected to register the highest growth rate in the recycled carbon fiber market during forecast period."

Europe is anticipated to register the highest CAGR in the recycled carbon fiber market during the forecast period due to its strong emphasis on sustainability, stringent environmental regulations, and well-established circular economy initiatives. The region has been at the forefront of adopting green manufacturing practices, with the European Union pushing for reduced carbon emissions and waste recycling across industries such as automotive & transportation, aerospace & defense, wind energy, and construction. Recently, in June 2025, Syensqo (Belgium) has partnered with Vartega Inc. (US) to advance sustainable high-performance plastics through a breakthrough in carbon fiber recycling. This partnership enables scalable, cost-effective closed-loop recycling that produces high-quality recycled carbon fiber without sacrificing strength, cost, or durability. Additionally, significant investments in recycling technologies, coupled with government-backed research programs and collaborations between manufacturers and recycling firms, are creating a robust ecosystem that supports rapid market expansion in Europe.

This study has been validated through interviews with industry experts globally. The primary sources have been divided into the following three categories:

-□By Company Type: Tier 1 - 40%, Tier 2 - 33%, and Tier 3 - 27%

-□By Designation: C-level - 50%, Director-level - 30%, and Managers - 20%

-□By Region: North America - 20%, Europe - 50%, Asia Pacific - 15%, the Middle East & Africa - 10%, and Latin America - 5%

The report provides a comprehensive analysis of the following companies:

Prominent companies in this market include Toray Industries, Inc. (Japan), Mitsubishi Chemical Group Corporation (Japan), Procotex (Belgium), Vartega Inc. (US), Carbon Conversions (US), Gen 2 Carbon Limited (UK), Shocker Composites (US), Carbon Fiber Recycling (US), Alpha Recycling Composites (France), Carbon Fiber Remanufacturing (US), CATAACK-H (South Korea), Hera SpA (Italy), and Pyrum Innovations AG (Germany).

## Research Coverage

This research report categorizes the recycled carbon fiber market by type (milled, chopped), source (aerospace scrap, automotive scrap, and other sources), manufacturing process (mechanical, thermal, and chemical), end-use industry (automotive & transportation, consumer goods, sporting goods, industrial, aerospace & defense, marine, and other end-use industries), and region (North America, Europe, Asia Pacific, the Middle East & Africa, and Latin America). The scope of the report includes detailed information about the major factors influencing the growth of the recycled carbon fiber market, such as drivers, restraints, challenges, and opportunities. A thorough examination of the key industry players has been conducted to provide insights into their business overviews, solutions and services, key strategies, and recent developments in the recycled carbon fiber market are all covered. This report includes a competitive analysis of upcoming startups in the recycled carbon fiber market ecosystem.

## Reasons to buy this report

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The report will help market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall recycled carbon fiber market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

-□Analysis of key drivers (Regulations on eco-friendly products, Increasing demand for carbon fibers from composites industry, Waste reduction to protect environment, Development of eco-friendly carbon fibers from composites), restraints (Lack of technical knowledge, Use of economic products, Test procedures for recycled carbon fiber composites), opportunities (Use of recyclable and lightweight materials in automotive & transportation sectors, Rising demand for recycled carbon from emerging markets, Increasing use of recycled carbon fiber in aerospace sector, Revolutionizing carbon fiber waste for sustainable pressure vessels), and challenges (Promoting recycled carbon fiber for commercial application, Difficulty in recycling, Length constraints in recycled carbon fiber utilization) are influencing the growth of the recycled carbon fiber market.

-□Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and product launches in the recycled carbon fiber market.

-□Market Development: Comprehensive information about lucrative markets - the report analyses the recycled carbon fiber market across varied regions.

-□Market Diversification: Exhaustive information about services, untapped geographies, recent developments, and investments in the recycled carbon fiber market.

-□Competitive Assessment: In-depth assessment of market shares, growth strategies, and product offerings of leading players like Toray Industries, Inc. (Japan), Mitsubishi Chemical Group Corporation (Japan), Procotex (Belgium), Vartega Inc. (US), Carbon Conversions (US), Gen 2 Carbon Limited (UK), Shocker Composites (US), Carbon Fiber Recycling (US), Alpha Recycling Composites (France), Carbon Fiber Remanufacturing (US), CATAACK-H (South Korea), Hera SpA (Italy), and Pyrum Innovations AG (Germany).

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