

Recycled Carbon Fiber Market Growth Analysis - Market Size, Share, Forecast Trends and Outlook Report (2025-2034)

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Report description:

The global recycled carbon fiber market was valued at USD 197.80 Million in 2024. The industry is expected to grow at a CAGR of 11.60% during the forecast period of 2025-2034. Greater consumer demand for sustainable products, coupled with increasing industrial use of eco-friendly material has driven the market growth. In turn, all these factors have resulted in the market attaining a valuation of USD 592.75 Million by 2034.

Global Recycled Carbon Fiber Market Report Summary

Description

Value

Base Year

USD Million

2024

Historical Period

USD Million

2018-2024

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Forecast Period

USD Million

2025-2034

Market Size 2024

USD Million

197.80

Market Size 2034

USD Million

592.75

CAGR 2018-2024

Percentage

XX%

CAGR 2025-2034

Percentage

11.60%

CAGR 2025-2034- Market by Region

Asia Pacific

13.0%

CAGR 2025-2034 - Market by Country

China

14.3%

CAGR 2025-2034 - Market by Country

India

13.4%

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CAGR 2025-2034 - Market by Application

Aerospace

13.2%

CAGR 2025-2034 - Market by Product Type

Non-Woven

11.8%

Market Share by Country 2024

France

3.2%

Recycled Carbon Fiber Market Overview

The recycled carbon fiber market growth is propelled by rising environmental awareness and sustainability requirements spanning automotive, aerospace, and construction sectors. Major factors driving this growth include the introduction of stricter environmental regulations and companies seeking ways to drive down production costs and reduce carbon footprints. Market trends include recycling technologies, which enhance fiber quality and processing efficiency. These are being looked into by the key players in the market such as Mitsubishi Chemical, Carbon Conversions, and ELG Carbon Fiber. These companies are actively involved in the development of innovative recycling processes and extending capacity while looking for strategic partnerships.

Recycled Carbon Fiber Market Growth

The aerospace industry is a major niche driving demand in the recycled carbon fiber market. With strict weight and performance requirements, recycled carbon fiber makes an effective and eco-friendly alternative to traditional materials. Companies like Boeing are adopting these recycled fibers in aircraft components to reduce weight and fuel consumption, aligning directly with sustainability goals. Moreover, manufacturers of sporting equipment are embracing recycled carbon fibers on account of their high strength-to-weight ratio combined with durability. Bicycle, golf club, and ski products gain performance qualities from their usage along with the consideration of being marketed as a green product to meet rising consumer interest in sustainable goods.

Key Trends and Recent Developments

The key trends of the recycled carbon fiber market include technology advancements, automotive adoption, circular economy initiatives, and strategic partnerships.

January 2025

Vartega, a carbon fiber recycler based in Denver, Colorado, opened an online store. This accomplishment represents a major advancement in Vartega's goal to increase the availability of premium, environmentally friendly carbon fiber products for companies all around the world.

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June 2024

Thermolysis Co. Ltd. unveiled its socially conscious brand, RCF. RCF uses carbon fiber recycled through the thermolysis process to design and develop a variety of everyday necessities and bike accessories, such as bottle cages, pads, seats, cycling shoe boards, light stands, and fenders.

April 2024

Masato Izumihara, president of UBE Corporation, announced the introduction of new composite goods intended to lessen the company's environmental effect and greenhouse gas (GHG) emissions.

October 2023

At the US Grand Prix, McLaren revealed that they would be testing the usage of advanced recycled carbon fiber (rCF) on vehicles driven by Lando Norris and Oscar Piastri.

Growth of Recycling Technologies

Improvements in technology are increasingly transforming the recycled carbon fiber market dynamics with enhanced quality and better performance. Innovations such as pyrolysis and solvent-based methods have improved this efficiency and increased fiber recovery. Companies like ELG Carbon Fibre are leading in the production of high-quality recycled carbon fiber that are used in performance-intensive industries like in the aerospace and automotive sectors. These technologies have led to reduced production costs and high economic viability.

Growth in Automotive Industry Adoption

The expanding automotive sector is reshaping the recycled carbon fiber market value due to the increased demand for lowered vehicle weight, improved fuel efficiency, and a drive to comply with environmental regulations. For instance, leading automakers like BMW, are using recycled carbon fiber in various automotive components like fenders and dashboards as a sustainable alternative to conventional materials. Over the years, this trend is expected to expand as vehicle manufacturers embrace lightweight eco-friendly materials.

Growing Focus on Circular Economy

In line with the shift to a circular economy worldwide, recycled carbon fiber has begun to gain prominence. Every company is taking up thick matters of material recovery and reuse, thus minimizing waste and reducing the need for virgin fibers. This circular model has been widely used by the sports equipment, automotive, and aerospace industries, thereby boosting the recycled carbon fiber market growth. For example, Boeing maintained product integrity while promoting sustainability by incorporating recycled carbon fiber into aircraft parts.

Supply Chain Partnerships

Many important players in the recycled carbon fiber market are establishing strategic alliances throughout the supply chain in response to the expected increase in demand. For certain processes, companies such as Toray and Carbon Conversions, are collaborating with producers to guarantee a consistent supply of premium recycled carbon fiber. Such synergies facilitate scaling up production levels while improving material performance, coupled with reduced costs and allowing for broad industry

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applications. These partnerships offer the much-needed growth framework for the effective and sustainable use of recycled carbon fibers in practice.

Recycled Carbon Fiber Market Opportunities

There are several growth opportunities for businesses in the recycled carbon fiber market since emerging economies like China and India have centered their industries on sustainability. New opportunities have been opened by the rise of industrialization and the need for environmentally friendly materials in the electronics, building, and automobile industries. To drive the environmental mission, companies can set up production facilities or collaborate with regional producers to meet the local need for strong, lightweight materials. Recycled carbon fiber's light weight, strength, and durability offer much potential beyond traditional industries. Companies can explore applications at the level of consumer goods, such as sports equipment, luxury accessories, and even fashion. With consumer preference trending towards sustainability, these niche markets can be leveraged for further growth opportunities.

Recycled Carbon Fiber Market Trends

Stricter environmental laws are being enforced by governments around the world, which is pressuring businesses to cut back on waste and carbon emissions. These rules support the recycled carbon fiber market growth since businesses use recycled resources to meet sustainability targets. Demand for environmentally friendly substitutes is rising as a result of this trend, particularly in high-performance industries like aerospace and automotive where material waste and carbon emissions are regularly tracked. Moreover, rising raw material costs are inducing manufacturers into searching for cheaper alternatives. As a fact, recycled carbon provides not only a cheaper, but also a sustainable alternative due to its high operational efficiency.

Recycled Carbon Fiber Market Restraints

- Recycling carbon fiber remains relatively expensive, especially in terms of energy consumption in the process. It also requires expensive equipment, thereby challenging the recycled carbon fiber consumption.
- The complicated and time-consuming recycling procedures are the main cause of the restricted supply of high-quality recycled carbon fiber, which may prevent widespread adoption across industries.

Recycled Carbon Fiber Industry Segmentation

The EMR's report titled "Recycled Carbon Fiber Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

Market Breakup by Application

- Aerospace
- Transportation
- Consumer Goods
- Sporting Goods
- Others

Market Breakup by Product Type

- Non-Woven
- Chopped

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- Milled

Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Recycled Carbon Fiber Market Share

Market Insights by Application

The recycled carbon fiber market experiences increasing popularity in a variety of applications. Reducing weight and improving fuel economy are priorities in the aerospace industry. The aerospace segment is expected to grow at a CAGR of 13.2% CAGR over the forecast period. Leading the charge in adopting these recycled materials are corporations such as Boeing. Recycled carbon fiber is being used in consumer goods, such as environmentally friendly electronics. Its performance and durability make it a useful material for sporting equipment such as skis and bicycles. Moreover, these fibers are increasingly being investigated by other industries, such as renewable energy and construction, as a means of reducing waste and enhancing sustainability.

Market Analysis by Product Type

Non-woven, chopped, and milled recycled carbon fibers are garnering attention for their various applications. Non-woven fibers are used in the construction and automotive industries due to their flexibility and lightweight nature, thereby boosting the recycled carbon fiber demand. This particular segment is expected to grow at 11.8% CAGR over the forecast period. With increased durability and cost-effectiveness, chopped fibers are frequently used in thermoplastics, particularly in the consumer goods and automobile industries. Fine-textured, milled fibers are employed in high-performance industries where strength and accuracy are crucial, such as sporting goods and aircraft. These product types constitute agility and sustainability that spurs their adoption across industries aspiring for environment-friendly, high-performance materials.

Recycled Carbon Fiber Market Regional Analysis

North America Recycled Carbon Fiber Market Opportunities

Demand in the North America recycled carbon fiber market is primarily driven by stringent environmental regulations and the lightweighting and sustainable materials movements within the automotive industry. The aerospace sector likewise embraces recycled fibers to reach the goal of reduced carbon footprints. The United States is particularly directing great attention towards greener manufacturing practices and renewable energy initiatives.

Europe Recycled Carbon Fiber Market Insights

The Europe recycled carbon fiber market growth is due to the region's increased focus on sustainability and circular economy principles. Strong regulatory frameworks and players in the automotive and aerospace segments foresee an increasing incorporation of recycled materials into the production processes by European manufacturers to meet their carbon reduction and environmental goals.

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Asia Pacific Recycled Carbon Fiber Market Growth

Recycled carbon fiber adoption in Asia Pacific is growing exponentially. This growth is particularly observed in China and Japan, as a result of growing industrialization and a changing trend toward sustainable development. The market, expected to grow at 13.0% CAGR during the forecast period, has been driven by the electronics and automotive industries, where producers continue to use recycled carbon fibers to reduce costs and satisfy environmental standards. More importantly, this region is becoming one of key development and innovation centers of material production.

CAGR 2025-2034 - Market by

Country

China

14.3%

India

13.4%

Australia

12.5%

USA

12.3%

France

11.7%

Canada

XX%

UK

XX%

Germany

XX%

Italy

11.3%

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Japan

XX%

Saudi Arabia

XX%

Brazil

XX%

Mexico

XX%

Latin America Recycled Carbon Fiber Market Outlook

The main component driving recycled carbon fiber demand in Latin America is the growing automotive sector, mainly in Brazil. Since there is huge focus on reducing production costs and meeting international standards of sustainability, recycled solutions are being adopted in the region. Local governments also promote green manufacturing via incentives and policies.

Middle East and Africa Recycled Carbon Fiber Market Dynamics

The Middle East and Africa recycled carbon fiber market observes an increased demand due to the expansion of infrastructure development and investments in the aerospace industry. With a growing focus of environmental challenges by governments that demand sustainability, industries like construction and automotive are inquiring about recycled fibers to enhance productivity while being sensitive to their environmental impact.

Competitive Landscape

Recycled carbon fiber market players are increasingly developing innovations in technology and lowering costs. Majority of the recycled carbon fiber companies are developing high-quality and cost-effective fibers for different applications within the automotive, aerospace, and consumer goods sectors.

Procotex Corporation

Procotex Corporation founded in Belgium, produces, refines, and distributes flax fibers for use in the paper, composite, spinning, and sanitary industries, among other industrial sectors. It produces spun, composite, and plumbing flex products; it recycles waste from natural, synthetic, and technical textiles; and it offers milled and reinforced technical fibers.

SGL

SGL, founded in 1992 and based in Germany is one of the leading players in advanced carbon materials, catering to automotive and aerospace industries. Their solutions aim to lower carbon emissions and establish circular economy practices.

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Carbon Conversion Inc

Carbon Conversion Inc, founded in 2008 with its headquarters located in the United States, is recognized for its innovative pyrolysis technology. Carbon Conversion Inc specializes in recovering carbon fiber from composite waste. The company serves aerospace, automotive, and renewable energy industries in promoting eco-friendly alternatives.

Gen 2 Carbon

Gen 2 Carbon founded in 2003, and based in the United Kingdom produces recycled carbon fibers by advanced methods to recycle composite materials. They serve aerospace, automotive, and industrial sectors, providing cost-effective, sustainable material solutions.

Other key players in the recycled carbon fiber market report are Vartega Inc., and Toray Industries, Inc, among others.

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