

Carbon Fibre Tape Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Form (Prepreg Tapes and Dry Tapes), By End User (Aerospace & Defense, Automotive, Sports & Leisure, Other), By Region and Competition, 2020-2030F

Market Report | 2025-11-24 | 185 pages | TechSci Research

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Report description:

Market Overview

The Global Carbon Fibre Tape Market, valued at USD 2.86 Billion in 2024, is expected to grow at a CAGR of 10.35% to reach USD 5.17 Billion by 2030. Carbon fibre tape-comprised of continuous carbon fibers in dry or resin-impregnated formats-is known for its exceptional strength-to-weight ratio, stiffness, and durability. Demand is strongly driven by the rising need for lightweight, high-performance materials across aerospace, defense, automotive, wind energy, and infrastructure applications, where weight reduction, enhanced fuel efficiency, and structural optimization are critical.

Key Market Drivers

Increasing Demand for Lightweight Materials

The primary driver of the carbon fibre tape market is the accelerating demand for lightweight, high-strength materials in sectors such as aerospace and automotive. Carbon fibre tapes offer significant weight reductions compared with metals while maintaining superior mechanical performance. For example, automotive applications can achieve up to 70% weight savings versus steel, as noted by Wolf Composites in July 2025. These reductions contribute directly to improved efficiency, enhanced design flexibility, and regulatory compliance, making carbon fibre tape increasingly essential for next-generation lightweighting strategies.

Key Market Challenges

High Production Costs

High production expenses remain a major barrier to market expansion. Carbon fibre tape manufacturing involves costly precursor materials, complex and energy-intensive processes, and substantial upfront capital requirements for facilities and equipment. These costs elevate final product pricing, limiting adoption in cost-sensitive industries despite the material's superior

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performance. While the global carbon fiber industry was valued at USD 3.2 billion in 2023 (American Composites Manufacturers Association), persistent high costs continue to constrain broad integration and slow capacity scaling.

Key Market Trends

Growing Adoption of Thermoplastic Carbon Fibre Tapes

A significant trend shaping the market is the rising adoption of thermoplastic carbon fibre tapes, favored for their faster processing, recyclability, and improved impact resistance compared to thermoset options. Their superior formability and suitability for high-volume production make them particularly attractive for automotive, aerospace, and emerging mobility applications. EuCIA reported that the European thermoplastic composites market reached 1,423 kilotons in 2023, reflecting substantial uptake. Additionally, Victrex plc noted strong momentum in May 2024, with its Transport segment reporting an 18% rise in Aerospace sales and a 14% increase in Automotive sales, reinforcing the shift toward thermoplastic composite solutions that support both performance and sustainable manufacturing.

Key Market Players

- Evonik Industries AG
- Saudi Basic Industries Corporation
- Solvay S.A.
- Hexcel Corporation
- TenCate Protective Fabrics
- SGL Carbon SE
- TEIJIN LIMITED
- BASF SE
- Celanese Corporation
- Victrex plc

Report Scope:

In this report, the Global Carbon Fibre Tape Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

-□Carbon Fibre Tape Market, By Form:

- o Dry Tapes
- o Prepreg Tapes

-□Carbon Fibre Tape Market, By End User:

- o Aerospace & Defense
- o Automotive
- o Sports & Leisure
- o Other

-□Carbon Fibre Tape Market, By Region:

- o North America
 - United States
 - Canada
 - Mexico
- o Asia Pacific
 - China
 - India
 - Japan
 - Australia
 - South Korea
- o Europe
 - France
 - United Kingdom

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- Italy
- Germany
- Spain
- o South America
- Brazil
- Argentina
- Colombia
- o Middle East & Africa
- South Africa
- Saudi Arabia
- UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the Global Carbon Fibre Tape Market.

Available Customizations:

Global Carbon Fibre Tape Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

-□Detailed analysis and profiling of additional market players (up to five).

Table of Contents:

1. Product Overview
 - 1.1. Market Definition
 - 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations
2. Research Methodology
 - 2.1. Objective of the Study
 - 2.2. Baseline Methodology
 - 2.3. Key Industry Partners
 - 2.4. Major Association and Secondary Sources
 - 2.5. Forecasting Methodology
 - 2.6. Data Triangulation & Validation
 - 2.7. Assumptions and Limitations
3. Executive Summary
 - 3.1. Overview of the Market
 - 3.2. Overview of Key Market Segmentations
 - 3.3. Overview of Key Market Players
 - 3.4. Overview of Key Regions/Countries
 - 3.5. Overview of Market Drivers, Challenges, Trends
4. Voice of Customer
5. Global Carbon Fibre Tape Market Outlook
 - 5.1. Market Size & Forecast
 - 5.1.1. By Value
 - 5.2. Market Share & Forecast
 - 5.2.1. By Form (Dry Tapes, Prepreg Tapes)

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- 5.2.2. By End User (Aerospace & Defense, Automotive, Sports & Leisure, Other)
- 5.2.3. By Region
- 5.2.4. By Company (2024)
- 5.3. Market Map
- 6. North America Carbon Fibre Tape Market Outlook
 - 6.1. Market Size & Forecast
 - 6.1.1. By Value
 - 6.2. Market Share & Forecast
 - 6.2.1. By Form
 - 6.2.2. By End User
 - 6.2.3. By Country
 - 6.3. North America: Country Analysis
 - 6.3.1. United States Carbon Fibre Tape Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Form
 - 6.3.1.2.2. By End User
 - 6.3.2. Canada Carbon Fibre Tape Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Form
 - 6.3.2.2.2. By End User
 - 6.3.3. Mexico Carbon Fibre Tape Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Form
 - 6.3.3.2.2. By End User
- 7. Europe Carbon Fibre Tape Market Outlook
 - 7.1. Market Size & Forecast
 - 7.1.1. By Value
 - 7.2. Market Share & Forecast
 - 7.2.1. By Form
 - 7.2.2. By End User
 - 7.2.3. By Country
 - 7.3. Europe: Country Analysis
 - 7.3.1. Germany Carbon Fibre Tape Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Form
 - 7.3.1.2.2. By End User
 - 7.3.2. France Carbon Fibre Tape Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value

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- 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Form
 - 7.3.2.2.2. By End User
- 7.3.3. United Kingdom Carbon Fibre Tape Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Form
 - 7.3.3.2.2. By End User
- 7.3.4. Italy Carbon Fibre Tape Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Form
 - 7.3.4.2.2. By End User
- 7.3.5. Spain Carbon Fibre Tape Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Form
 - 7.3.5.2.2. By End User
- 8. Asia Pacific Carbon Fibre Tape Market Outlook
 - 8.1. Market Size & Forecast
 - 8.1.1. By Value
 - 8.2. Market Share & Forecast
 - 8.2.1. By Form
 - 8.2.2. By End User
 - 8.2.3. By Country
 - 8.3. Asia Pacific: Country Analysis
 - 8.3.1. China Carbon Fibre Tape Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Form
 - 8.3.1.2.2. By End User
 - 8.3.2. India Carbon Fibre Tape Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Form
 - 8.3.2.2.2. By End User
 - 8.3.3. Japan Carbon Fibre Tape Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Form
 - 8.3.3.2.2. By End User

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- 8.3.4. South Korea Carbon Fibre Tape Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Form
 - 8.3.4.2.2. By End User
- 8.3.5. Australia Carbon Fibre Tape Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Form
 - 8.3.5.2.2. By End User
- 9. Middle East & Africa Carbon Fibre Tape Market Outlook
 - 9.1. Market Size & Forecast
 - 9.1.1. By Value
 - 9.2. Market Share & Forecast
 - 9.2.1. By Form
 - 9.2.2. By End User
 - 9.2.3. By Country
 - 9.3. Middle East & Africa: Country Analysis
 - 9.3.1. Saudi Arabia Carbon Fibre Tape Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Form
 - 9.3.1.2.2. By End User
 - 9.3.2. UAE Carbon Fibre Tape Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Form
 - 9.3.2.2.2. By End User
 - 9.3.3. South Africa Carbon Fibre Tape Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Form
 - 9.3.3.2.2. By End User
 - 10. South America Carbon Fibre Tape Market Outlook
 - 10.1. Market Size & Forecast
 - 10.1.1. By Value
 - 10.2. Market Share & Forecast
 - 10.2.1. By Form
 - 10.2.2. By End User
 - 10.2.3. By Country
 - 10.3. South America: Country Analysis
 - 10.3.1. Brazil Carbon Fibre Tape Market Outlook

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- 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
- 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Form
 - 10.3.1.2.2. By End User
- 10.3.2. Colombia Carbon Fibre Tape Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Form
 - 10.3.2.2.2. By End User
- 10.3.3. Argentina Carbon Fibre Tape Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Form
 - 10.3.3.2.2. By End User
- 11. Market Dynamics
 - 11.1. Drivers
 - 11.2. Challenges
- 12. Market Trends & Developments
 - 12.1. Merger & Acquisition (If Any)
 - 12.2. Product Launches (If Any)
 - 12.3. Recent Developments
- 13. Global Carbon Fibre Tape Market: SWOT Analysis
- 14. Porter's Five Forces Analysis
 - 14.1. Competition in the Industry
 - 14.2. Potential of New Entrants
 - 14.3. Power of Suppliers
 - 14.4. Power of Customers
 - 14.5. Threat of Substitute Products
- 15. Competitive Landscape
 - 15.1. Evonik Industries AG
 - 15.1.1. Business Overview
 - 15.1.2. Products & Services
 - 15.1.3. Recent Developments
 - 15.1.4. Key Personnel
 - 15.1.5. SWOT Analysis
 - 15.2. Saudi Basic Industries Corporation
 - 15.3. Solvay S.A.
 - 15.4. Hexcel Corporation
 - 15.5. TenCate Protective Fabrics
 - 15.6. SGL Carbon SE
 - 15.7. TEIJIN LIMITED
 - 15.8. BASF SE
 - 15.9. Celanese Corporation
 - 15.10. Victrex plc

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16. Strategic Recommendations
17. About Us & Disclaimer

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