

Global Carbon Fiber Tape Market Size Study & Forecast, by Form, Resin, Manufacturing Process, End-use Industry, and Regional Forecasts 2025-2035

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Abstracts

The Global Carbon Fiber Tape Market is valued at approximately USD 3.0 billion in 2024 and is poised to grow at a striking CAGR of over 13.00% during the forecast period 2025–2035. Carbon fiber tape, an advanced composite material engineered with precision, is gaining traction across a multitude of industries due to its exceptional strength-to-weight ratio, stiffness, and corrosion resistance. Characterized by its unidirectional reinforcement and compatibility with various resins, carbon fiber tape is increasingly being integrated into high-performance applications ranging from aerospace fuselages to sports equipment and lightweight automotive parts. The proliferation of lightweight, fuel-efficient designs across sectors has significantly intensified the demand for carbon fiber tape, making it a strategic material in the modern industrial landscape. With innovations in resin systems and production technologies continuing to evolve, this market is carving out a transformative path in next-generation material solutions.

The surge in demand from aerospace and automotive sectors, particularly for components that demand high performance and reduced weight, has significantly influenced the adoption of carbon fiber tape. Aerospace manufacturers are actively incorporating this material in airframe structures, brackets, and spars to reduce weight and enhance fuel efficiency. Meanwhile, the automotive sector is leveraging the tape's unique properties to develop lighter vehicles with better mileage and lower emissions. According to the International Air Transport Association (IATA), global air traffic is expected to double by 2040, urging manufacturers to invest heavily in lightweight composite materials. Furthermore, the growing penetration of electric vehicles and renewable energy infrastructure such as wind turbines has further catalyzed the adoption of carbon fiber tape. However, despite its numerous advantages, the high

production cost and limited recyclability of carbon fiber products remain obstacles that could restrain the market's full potential during the forecast window.

Regionally, North America held the lion's share of the Carbon Fiber Tape market in 2024, driven by its well-established aerospace and defense sector, particularly in the United States, which heavily invests in lightweight and durable materials for commercial aircraft, satellites, and defense equipment. In parallel, Europe continues to witness significant growth due to stringent environmental norms pushing automakers toward sustainable lightweighting solutions. Additionally, the region benefits from robust R&D initiatives and a strong presence of key market players. Asia Pacific is projected to experience the fastest growth rate over the forecast period, primarily attributed to escalating investments in industrial infrastructure, particularly in countries such as China, Japan, and South Korea. The rapid industrialization, booming automotive industry, and increasing demand for sporting goods embedded with high-performance materials are likely to further fuel the expansion of the carbon fiber tape market in this region.

Major market player included in this report are:

BASF SE

Baker Hughes Company

Croda International Plc.

Schlumberger Limited

Halliburton Company

Trican Well Service Ltd.

Aubin Group

Chevron Phillips Chemical Company

M&D Industries Of Louisiana, Inc.

Impact Fluid Solutions

Toray Industries, Inc.

SGL Carbon SE

Hexcel Corporation

Solvay S.A.

TPI Composites, Inc.

Global Carbon Fiber Tape Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period - 2025-2035

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

By Form:

Prepreg Tape

Dry Tape

By Resin:

Epoxy

Thermoplastic

Polyamide

By Manufacturing Process:

Hot Melt

Solvent Dip

By End-use Industry:

Aerospace

Marine

Pipe & Tank

Sporting Goods

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

Contents

CHAPTER 1. GLOBAL CARBON FIBER TAPE MARKET REPORT SCOPE & METHODOLOGY

- 1.1. Research Objective
- 1.2. Research Methodology
 - 1.2.1. Forecast Model
 - 1.2.2. Desk Research
 - 1.2.3. Top Down and Bottom-Up Approach
- 1.3. Research Attributes
- 1.4. Scope of the Study
 - 1.4.1. Market Definition
 - 1.4.2. Market Segmentation
- 1.5. Research Assumption
 - 1.5.1. Inclusion & Exclusion
 - 1.5.2. Limitations
 - 1.5.3. Years Considered for the Study

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. CEO/CXO Standpoint
- 2.2. Strategic Insights
- 2.3. ESG Analysis
- 2.4. Key Findings

CHAPTER 3. GLOBAL CARBON FIBER TAPE MARKET FORCES ANALYSIS (2024–2035)

- 3.1. Market Forces Shaping the Global Carbon Fiber Tape Market
- 3.2. Drivers
 - 3.2.1. Rapid Adoption of Lightweight Materials in Aerospace and Automotive Applications
 - 3.2.2. Accelerating Demand for High-Performance Composites in Renewable Energy Infrastructure
- 3.3. Restraints
 - 3.3.1. High Production Costs Associated with Carbon Fiber Tape
 - 3.3.2. Limited Recyclability and Environmental Concerns
- 3.4. Opportunities

- 3.4.1. Surge in Electric Vehicle Production and Industrial Automation
- 3.4.2. Technological Advancements in Resin Formulations and Tape Layup Techniques

CHAPTER 4. GLOBAL CARBON FIBER TAPE INDUSTRY ANALYSIS

- 4.1. Porter's 5 Forces Model
 - 4.1.1. Bargaining Power of Buyer
 - 4.1.2. Bargaining Power of Supplier
 - 4.1.3. Threat of New Entrants
 - 4.1.4. Threat of Substitutes
 - 4.1.5. Competitive Rivalry
- 4.2. Porter's 5 Force Forecast Model (2024–2035)
- 4.3. PESTEL Analysis
 - 4.3.1. Political
 - 4.3.2. Economical
 - 4.3.3. Social
 - 4.3.4. Technological
 - 4.3.5. Environmental
 - 4.3.6. Legal
- 4.4. Top Investment Opportunities
- 4.5. Top Winning Strategies (2025)
- 4.6. Market Share Analysis (2024–2025)
- 4.7. Global Pricing Analysis and Trends 2025
- 4.8. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL CARBON FIBER TAPE MARKET SIZE & FORECASTS BY FORM 2025–2035

- 5.1. Market Overview
- 5.2. Global Carbon Fiber Tape Market Performance - Potential Analysis (2025)
- 5.3. Prepreg Tape
 - 5.3.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
 - 5.3.2. Market Size Analysis, by Region, 2025–2035
- 5.4. Dry Tape
 - 5.4.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
 - 5.4.2. Market Size Analysis, by Region, 2025–2035

CHAPTER 6. GLOBAL CARBON FIBER TAPE MARKET SIZE & FORECASTS BY

Global Carbon Fiber Tape Market Size Study & Forecast, by Form, Resin, Manufacturing Process, End-use Industry...

RESIN 2025–2035

- 6.1. Market Overview
- 6.2. Global Carbon Fiber Tape Market Performance - Potential Analysis (2025)
- 6.3. Epoxy
 - 6.3.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
 - 6.3.2. Market Size Analysis, by Region, 2025–2035
- 6.4. Thermoplastic
 - 6.4.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
 - 6.4.2. Market Size Analysis, by Region, 2025–2035
- 6.5. Polyamide
 - 6.5.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
 - 6.5.2. Market Size Analysis, by Region, 2025–2035

CHAPTER 7. GLOBAL CARBON FIBER TAPE MARKET SIZE & FORECASTS BY MANUFACTURING PROCESS 2025–2035

- 7.1. Market Overview
- 7.2. Global Carbon Fiber Tape Market Performance - Potential Analysis (2025)
- 7.3. Hot Melt
 - 7.3.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
 - 7.3.2. Market Size Analysis, by Region, 2025–2035
- 7.4. Solvent Dip
 - 7.4.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
 - 7.4.2. Market Size Analysis, by Region, 2025–2035

CHAPTER 8. GLOBAL CARBON FIBER TAPE MARKET SIZE & FORECASTS BY END-USE INDUSTRY 2025–2035

- 8.1. Market Overview
- 8.2. Global Carbon Fiber Tape Market Performance - Potential Analysis (2025)
- 8.3. Aerospace
- 8.4. Marine
- 8.5. Pipe & Tank
- 8.6. Sporting Goods

CHAPTER 9. GLOBAL CARBON FIBER TAPE MARKET SIZE & FORECASTS BY REGION 2025–2035

- 9.1. Carbon Fiber Tape Market, Regional Market Snapshot
- 9.2. Top Leading & Emerging Countries
- 9.3. North America Carbon Fiber Tape Market
 - 9.3.1. U.S.
 - 9.3.1.1. Form Breakdown Size & Forecasts, 2025–2035
 - 9.3.1.2. Resin Breakdown Size & Forecasts, 2025–2035
 - 9.3.2. Canada
 - 9.3.2.1. Form Breakdown Size & Forecasts, 2025–2035
 - 9.3.2.2. Resin Breakdown Size & Forecasts, 2025–2035
- 9.4. Europe Carbon Fiber Tape Market
 - 9.4.1. UK
 - 9.4.1.1. Form Breakdown Size & Forecasts, 2025–2035
 - 9.4.1.2. Resin Breakdown Size & Forecasts, 2025–2035
 - 9.4.2. Germany
 - 9.4.3. France
 - 9.4.4. Spain
 - 9.4.5. Italy
 - 9.4.6. Rest of Europe
- 9.5. Asia Pacific Carbon Fiber Tape Market
 - 9.5.1. China
 - 9.5.2. India
 - 9.5.3. Japan
 - 9.5.4. Australia
 - 9.5.5. South Korea
 - 9.5.6. Rest of Asia Pacific
- 9.6. Latin America Carbon Fiber Tape Market
 - 9.6.1. Brazil
 - 9.6.2. Mexico
- 9.7. Middle East & Africa Carbon Fiber Tape Market
 - 9.7.1. UAE
 - 9.7.2. Saudi Arabia
 - 9.7.3. South Africa
 - 9.7.4. Rest of Middle East & Africa

CHAPTER 10. COMPETITIVE INTELLIGENCE

- 10.1. Top Market Strategies
- 10.2. Toray Industries, Inc.
 - 10.2.1. Company Overview

- 10.2.2. Key Executives
- 10.2.3. Company Snapshot
- 10.2.4. Financial Performance (Subject to Data Availability)
- 10.2.5. Product/Services Port
- 10.2.6. Recent Development
- 10.2.7. Market Strategies
- 10.2.8. SWOT Analysis
- 10.3. SGL Carbon SE
- 10.4. Hexcel Corporation
- 10.5. Solvay S.A.
- 10.6. TPI Composites, Inc.
- 10.7. BASF SE
- 10.8. Baker Hughes Company
- 10.9. Croda International Plc.
- 10.10. Schlumberger Limited
- 10.11. Halliburton Company
- 10.12. Trican Well Service Ltd.
- 10.13. Aubin Group
- 10.14. Chevron Phillips Chemical Company
- 10.15. M&D Industries Of Louisiana, Inc.
- 10.16. Impact Fluid Solutions

List Of Tables

LIST OF TABLES

Table 1. Global Carbon Fiber Tape Market, Report Scope

Table 2. Global Carbon Fiber Tape Market Estimates & Forecasts By Region
2024–2035

Table 3. Global Carbon Fiber Tape Market Estimates & Forecasts By Form 2024–2035

Table 4. Global Carbon Fiber Tape Market Estimates & Forecasts By Resin 2024–2035

Table 5. Global Carbon Fiber Tape Market Estimates & Forecasts By Manufacturing
Process 2024–2035

Table 6. Global Carbon Fiber Tape Market Estimates & Forecasts By End-use Industry
2024–2035

Table 7. U.S. Carbon Fiber Tape Market Estimates & Forecasts 2024–2035

Table 8. Canada Carbon Fiber Tape Market Estimates & Forecasts 2024–2035

Table 9. UK Carbon Fiber Tape Market Estimates & Forecasts 2024–2035

Table 10. Germany Carbon Fiber Tape Market Estimates & Forecasts 2024–2035

Table 11. France Carbon Fiber Tape Market Estimates & Forecasts 2024–2035

Table 12. Spain Carbon Fiber Tape Market Estimates & Forecasts 2024–2035

Table 13. Italy Carbon Fiber Tape Market Estimates & Forecasts 2024–2035

Table 14. Rest of Europe Carbon Fiber Tape Market Estimates & Forecasts 2024–2035

Table 15. China Carbon Fiber Tape Market Estimates & Forecasts 2024–2035

Table 16. India Carbon Fiber Tape Market Estimates & Forecasts 2024–2035

Table 17. Japan Carbon Fiber Tape Market Estimates & Forecasts 2024–2035

Table 18. Australia Carbon Fiber Tape Market Estimates & Forecasts 2024–2035

Table 19. South Korea Carbon Fiber Tape Market Estimates & Forecasts 2024–2035

Table 20. Brazil Carbon Fiber Tape Market Estimates & Forecasts 2024–2035

Table 21. Mexico Carbon Fiber Tape Market Estimates & Forecasts 2024–2035

Table 22. UAE Carbon Fiber Tape Market Estimates & Forecasts 2024–2035

Table 23. Saudi Arabia Carbon Fiber Tape Market Estimates & Forecasts 2024–2035

Table 24. South Africa Carbon Fiber Tape Market Estimates & Forecasts 2024–2035

List Of Figures

LIST OF FIGURES

- Figure 1. Global Carbon Fiber Tape Market, Research Methodology
- Figure 2. Global Carbon Fiber Tape Market, Estimation Techniques
- Figure 3. Global Carbon Fiber Tape Market Size Estimation Model
- Figure 4. Key Trends in the Carbon Fiber Tape Market, 2025
- Figure 5. Global Growth Prospects for Carbon Fiber Tape, 2024–2035
- Figure 6. Porter's Five Forces Model – Carbon Fiber Tape Market
- Figure 7. PESTEL Analysis – Global Carbon Fiber Tape Market
- Figure 8. Value Chain Analysis – Carbon Fiber Tape Market
- Figure 9. Carbon Fiber Tape Market by Form, 2025 & 2035
- Figure 10. Carbon Fiber Tape Market by Resin, 2025 & 2035
- Figure 11. Carbon Fiber Tape Market by Manufacturing Process, 2025 & 2035
- Figure 12. Carbon Fiber Tape Market by End-use Industry, 2025 & 2035
- Figure 13. North America Carbon Fiber Tape Market, 2025 & 2035
- Figure 14. Europe Carbon Fiber Tape Market, 2025 & 2035
- Figure 15. Asia Pacific Carbon Fiber Tape Market, 2025 & 2035
- Figure 16. Latin America Carbon Fiber Tape Market, 2025 & 2035
- Figure 17. Middle East & Africa Carbon Fiber Tape Market, 2025 & 2035
- Figure 18. Global Carbon Fiber Tape Market, Company Market Share Analysis (2025)

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