

Global Carbon Fiber Reinforced Thermoplastic Polyurethane Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Carbon Fiber Reinforced Thermoplastic Polyurethane market size is expected to reach \$ 114 million by 2032, rising at a market growth of 4.5% CAGR during the forecast period (2026-2032).

Carbon fiber reinforced thermoplastic polyurethane (CFR) is a composite material combining high-strength carbon fiber (CF) with highly elastic, wear-resistant thermoplastic polyurethane (TPU). It achieves a balance of lightweight, high stiffness, and high flexibility, exhibiting excellent impact resistance and fatigue resistance.

The upstream sector consists of high-performance carbon fiber precursors (such as PAN-based large or small tows) and a thermoplastic polyurethane (TPU) resin matrix. The midstream sector is the core of the industry chain, with mainstream technologies including chopped fiber reinforcement (SFT) and long fiber reinforcement (LFT). Long fiber technology, in particular, offers superior mechanical properties due to its ability to maintain the three-dimensional network structure of the fibers within the matrix.

In 2025, global sales volume is projected to reach approximately 2,300 tons, with market prices ranging roughly from \$25 to \$40 per kilogram. The industry's gross profit margin stands at around 30%.

This report studies the global Carbon Fiber Reinforced Thermoplastic Polyurethane production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Carbon Fiber Reinforced Thermoplastic Polyurethane and provides market size (US\$ million)

and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Carbon Fiber Reinforced Thermoplastic Polyurethane that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Carbon Fiber Reinforced Thermoplastic Polyurethane total production and demand, 2021-2032, (Tons)

Global Carbon Fiber Reinforced Thermoplastic Polyurethane total production value, 2021-2032, (USD Million)

Global Carbon Fiber Reinforced Thermoplastic Polyurethane production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Carbon Fiber Reinforced Thermoplastic Polyurethane consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Carbon Fiber Reinforced Thermoplastic Polyurethane domestic production, consumption, key domestic manufacturers and share

Global Carbon Fiber Reinforced Thermoplastic Polyurethane production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Carbon Fiber Reinforced Thermoplastic Polyurethane production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Carbon Fiber Reinforced Thermoplastic Polyurethane production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Carbon Fiber Reinforced Thermoplastic Polyurethane market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Avient, Celanese, Envalior, Toray, RTP Company, Carbon (Xiamen) New Material, Xiamen LFT Composite Plastic, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Carbon Fiber Reinforced Thermoplastic Polyurethane market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Carbon Fiber Reinforced Thermoplastic Polyurethane Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbon Fiber Reinforced Thermoplastic Polyurethane Market, Segmentation by Type:

Short Carbon Fiber

Long Carbon Fiber

Continuous Carbon Fiber

Global Carbon Fiber Reinforced Thermoplastic Polyurethane Market, Segmentation by Morphology:

Particles

Prepreg

Other

Global Carbon Fiber Reinforced Thermoplastic Polyurethane Market, Segmentation by Application:

Automotive

Medical

Sports Equipment

Other

Companies Profiled:

Avient

Celanese

Envalior

Toray

RTP Company

Carbon (Xiamen) New Material

Xiamen LFT Composite Plastic

Key Questions Answered:

1. How big is the global Carbon Fiber Reinforced Thermoplastic Polyurethane market?
2. What is the demand of the global Carbon Fiber Reinforced Thermoplastic

Polyurethane market?

3. What is the year over year growth of the global Carbon Fiber Reinforced Thermoplastic Polyurethane market?
4. What is the production and production value of the global Carbon Fiber Reinforced Thermoplastic Polyurethane market?
5. Who are the key producers in the global Carbon Fiber Reinforced Thermoplastic Polyurethane market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Carbon Fiber Reinforced Thermoplastic Polyurethane Introduction
- 1.2 World Carbon Fiber Reinforced Thermoplastic Polyurethane Supply & Forecast
 - 1.2.1 World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Carbon Fiber Reinforced Thermoplastic Polyurethane Production (2021-2032)
 - 1.2.3 World Carbon Fiber Reinforced Thermoplastic Polyurethane Pricing Trends (2021-2032)
- 1.3 World Carbon Fiber Reinforced Thermoplastic Polyurethane Production by Region (Based on Production Site)
 - 1.3.1 World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value by Region (2021-2032)
 - 1.3.2 World Carbon Fiber Reinforced Thermoplastic Polyurethane Production by Region (2021-2032)
 - 1.3.3 World Carbon Fiber Reinforced Thermoplastic Polyurethane Average Price by Region (2021-2032)
 - 1.3.4 North America Carbon Fiber Reinforced Thermoplastic Polyurethane Production (2021-2032)
 - 1.3.5 Europe Carbon Fiber Reinforced Thermoplastic Polyurethane Production (2021-2032)
 - 1.3.6 China Carbon Fiber Reinforced Thermoplastic Polyurethane Production (2021-2032)
 - 1.3.7 Japan Carbon Fiber Reinforced Thermoplastic Polyurethane Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Carbon Fiber Reinforced Thermoplastic Polyurethane Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Carbon Fiber Reinforced Thermoplastic Polyurethane Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Carbon Fiber Reinforced Thermoplastic Polyurethane Demand (2021-2032)
- 2.2 World Carbon Fiber Reinforced Thermoplastic Polyurethane Consumption by Region
 - 2.2.1 World Carbon Fiber Reinforced Thermoplastic Polyurethane Consumption by

Region (2021-2026)

2.2.2 World Carbon Fiber Reinforced Thermoplastic Polyurethane Consumption

Forecast by Region (2027-2032)

2.3 United States Carbon Fiber Reinforced Thermoplastic Polyurethane Consumption (2021-2032)

2.4 China Carbon Fiber Reinforced Thermoplastic Polyurethane Consumption (2021-2032)

2.5 Europe Carbon Fiber Reinforced Thermoplastic Polyurethane Consumption (2021-2032)

2.6 Japan Carbon Fiber Reinforced Thermoplastic Polyurethane Consumption (2021-2032)

2.7 South Korea Carbon Fiber Reinforced Thermoplastic Polyurethane Consumption (2021-2032)

2.8 ASEAN Carbon Fiber Reinforced Thermoplastic Polyurethane Consumption (2021-2032)

2.9 India Carbon Fiber Reinforced Thermoplastic Polyurethane Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value by Manufacturer (2021-2026)

3.2 World Carbon Fiber Reinforced Thermoplastic Polyurethane Production by Manufacturer (2021-2026)

3.3 World Carbon Fiber Reinforced Thermoplastic Polyurethane Average Price by Manufacturer (2021-2026)

3.4 Carbon Fiber Reinforced Thermoplastic Polyurethane Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Carbon Fiber Reinforced Thermoplastic Polyurethane Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Carbon Fiber Reinforced Thermoplastic Polyurethane in 2025

3.5.3 Global Concentration Ratios (CR8) for Carbon Fiber Reinforced Thermoplastic Polyurethane in 2025

3.6 Carbon Fiber Reinforced Thermoplastic Polyurethane Market: Overall Company Footprint Analysis

3.6.1 Carbon Fiber Reinforced Thermoplastic Polyurethane Market: Region Footprint

3.6.2 Carbon Fiber Reinforced Thermoplastic Polyurethane Market: Company Product

Type Footprint

3.6.3 Carbon Fiber Reinforced Thermoplastic Polyurethane Market: Company Product

Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value Comparison

4.1.1 United States VS China: Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Carbon Fiber Reinforced Thermoplastic Polyurethane Production Comparison

4.2.1 United States VS China: Carbon Fiber Reinforced Thermoplastic Polyurethane Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Carbon Fiber Reinforced Thermoplastic Polyurethane Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Carbon Fiber Reinforced Thermoplastic Polyurethane Consumption Comparison

4.3.1 United States VS China: Carbon Fiber Reinforced Thermoplastic Polyurethane Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Carbon Fiber Reinforced Thermoplastic Polyurethane Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Carbon Fiber Reinforced Thermoplastic Polyurethane Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Carbon Fiber Reinforced Thermoplastic Polyurethane Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value (2021-2026)

4.4.3 United States Based Manufacturers Carbon Fiber Reinforced Thermoplastic Polyurethane Production (2021-2026)

4.5 China Based Carbon Fiber Reinforced Thermoplastic Polyurethane Manufacturers

and Market Share

4.5.1 China Based Carbon Fiber Reinforced Thermoplastic Polyurethane Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value (2021-2026)

4.5.3 China Based Manufacturers Carbon Fiber Reinforced Thermoplastic Polyurethane Production (2021-2026)

4.6 Rest of World Based Carbon Fiber Reinforced Thermoplastic Polyurethane Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Carbon Fiber Reinforced Thermoplastic Polyurethane Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Carbon Fiber Reinforced Thermoplastic Polyurethane Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Carbon Fiber Reinforced Thermoplastic Polyurethane Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Short Carbon Fiber

5.2.2 Long Carbon Fiber

5.2.3 Continuous Carbon Fiber

5.3 Market Segment by Type

5.3.1 World Carbon Fiber Reinforced Thermoplastic Polyurethane Production by Type (2021-2032)

5.3.2 World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value by Type (2021-2032)

5.3.3 World Carbon Fiber Reinforced Thermoplastic Polyurethane Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY MORPHOLOGY

6.1 World Carbon Fiber Reinforced Thermoplastic Polyurethane Market Size Overview by Morphology: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Morphology

6.2.1 Particles

6.2.2 Prepreg

6.2.3 Other

6.3 Market Segment by Morphology

6.3.1 World Carbon Fiber Reinforced Thermoplastic Polyurethane Production by Morphology (2021-2032)

6.3.2 World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value by Morphology (2021-2032)

6.3.3 World Carbon Fiber Reinforced Thermoplastic Polyurethane Average Price by Morphology (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World Carbon Fiber Reinforced Thermoplastic Polyurethane Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Automotive

7.2.2 Medical

7.2.3 Sports Equipment

7.2.4 Other

7.3 Market Segment by Application

7.3.1 World Carbon Fiber Reinforced Thermoplastic Polyurethane Production by Application (2021-2032)

7.3.2 World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value by Application (2021-2032)

7.3.3 World Carbon Fiber Reinforced Thermoplastic Polyurethane Average Price by Application (2021-2032)

8 COMPANY PROFILES

8.1 Avient

8.1.1 Avient Details

8.1.2 Avient Major Business

8.1.3 Avient Carbon Fiber Reinforced Thermoplastic Polyurethane Product and Services

8.1.4 Avient Carbon Fiber Reinforced Thermoplastic Polyurethane Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.1.5 Avient Recent Developments/Updates

8.1.6 Avient Competitive Strengths & Weaknesses

8.2 Celanese

8.2.1 Celanese Details

- 8.2.2 Celanese Major Business
- 8.2.3 Celanese Carbon Fiber Reinforced Thermoplastic Polyurethane Product and Services
- 8.2.4 Celanese Carbon Fiber Reinforced Thermoplastic Polyurethane Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.2.5 Celanese Recent Developments/Updates
- 8.2.6 Celanese Competitive Strengths & Weaknesses
- 8.3 Envalior
 - 8.3.1 Envalior Details
 - 8.3.2 Envalior Major Business
 - 8.3.3 Envalior Carbon Fiber Reinforced Thermoplastic Polyurethane Product and Services
 - 8.3.4 Envalior Carbon Fiber Reinforced Thermoplastic Polyurethane Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.3.5 Envalior Recent Developments/Updates
 - 8.3.6 Envalior Competitive Strengths & Weaknesses
- 8.4 Toray
 - 8.4.1 Toray Details
 - 8.4.2 Toray Major Business
 - 8.4.3 Toray Carbon Fiber Reinforced Thermoplastic Polyurethane Product and Services
 - 8.4.4 Toray Carbon Fiber Reinforced Thermoplastic Polyurethane Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.4.5 Toray Recent Developments/Updates
 - 8.4.6 Toray Competitive Strengths & Weaknesses
- 8.5 RTP Company
 - 8.5.1 RTP Company Details
 - 8.5.2 RTP Company Major Business
 - 8.5.3 RTP Company Carbon Fiber Reinforced Thermoplastic Polyurethane Product and Services
 - 8.5.4 RTP Company Carbon Fiber Reinforced Thermoplastic Polyurethane Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.5.5 RTP Company Recent Developments/Updates
 - 8.5.6 RTP Company Competitive Strengths & Weaknesses
- 8.6 Carbon (Xiamen) New Material
 - 8.6.1 Carbon (Xiamen) New Material Details
 - 8.6.2 Carbon (Xiamen) New Material Major Business
 - 8.6.3 Carbon (Xiamen) New Material Carbon Fiber Reinforced Thermoplastic Polyurethane Product and Services

8.6.4 Carbon (Xiamen) New Material Carbon Fiber Reinforced Thermoplastic Polyurethane Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.6.5 Carbon (Xiamen) New Material Recent Developments/Updates

8.6.6 Carbon (Xiamen) New Material Competitive Strengths & Weaknesses

8.7 Xiamen LFT Composite Plastic

8.7.1 Xiamen LFT Composite Plastic Details

8.7.2 Xiamen LFT Composite Plastic Major Business

8.7.3 Xiamen LFT Composite Plastic Carbon Fiber Reinforced Thermoplastic Polyurethane Product and Services

8.7.4 Xiamen LFT Composite Plastic Carbon Fiber Reinforced Thermoplastic Polyurethane Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.7.5 Xiamen LFT Composite Plastic Recent Developments/Updates

8.7.6 Xiamen LFT Composite Plastic Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

9.1 Carbon Fiber Reinforced Thermoplastic Polyurethane Industry Chain

9.2 Carbon Fiber Reinforced Thermoplastic Polyurethane Upstream Analysis

9.2.1 Carbon Fiber Reinforced Thermoplastic Polyurethane Core Raw Materials

9.2.2 Main Manufacturers of Carbon Fiber Reinforced Thermoplastic Polyurethane Core Raw Materials

9.3 Midstream Analysis

9.4 Downstream Analysis

9.5 Carbon Fiber Reinforced Thermoplastic Polyurethane Production Mode

9.6 Carbon Fiber Reinforced Thermoplastic Polyurethane Procurement Model

9.7 Carbon Fiber Reinforced Thermoplastic Polyurethane Industry Sales Model and Sales Channels

9.7.1 Carbon Fiber Reinforced Thermoplastic Polyurethane Sales Model

9.7.2 Carbon Fiber Reinforced Thermoplastic Polyurethane Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value Market Share by Region (2021-2026)
- Table 5. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value Market Share by Region (2027-2032)
- Table 6. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production by Region (2021-2026) & (Tons)
- Table 7. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production by Region (2027-2032) & (Tons)
- Table 8. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Market Share by Region (2021-2026)
- Table 9. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Market Share by Region (2027-2032)
- Table 10. World Carbon Fiber Reinforced Thermoplastic Polyurethane Average Price by Region (2021-2026) & (US\$/kg)
- Table 11. World Carbon Fiber Reinforced Thermoplastic Polyurethane Average Price by Region (2027-2032) & (US\$/kg)
- Table 12. Carbon Fiber Reinforced Thermoplastic Polyurethane Major Market Trends
- Table 13. World Carbon Fiber Reinforced Thermoplastic Polyurethane Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)
- Table 14. World Carbon Fiber Reinforced Thermoplastic Polyurethane Consumption by Region (2021-2026) & (Tons)
- Table 15. World Carbon Fiber Reinforced Thermoplastic Polyurethane Consumption Forecast by Region (2027-2032) & (Tons)
- Table 16. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Carbon Fiber Reinforced Thermoplastic Polyurethane Producers in 2025
- Table 18. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Carbon Fiber Reinforced Thermoplastic Polyurethane Producers in 2025

Table 20. World Carbon Fiber Reinforced Thermoplastic Polyurethane Average Price by Manufacturer (2021-2026) & (US\$/kg)

Table 21. Global Carbon Fiber Reinforced Thermoplastic Polyurethane Company Evaluation Quadrant

Table 22. World Carbon Fiber Reinforced Thermoplastic Polyurethane Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Carbon Fiber Reinforced Thermoplastic Polyurethane Production Site of Key Manufacturer

Table 24. Carbon Fiber Reinforced Thermoplastic Polyurethane Market: Company Product Type Footprint

Table 25. Carbon Fiber Reinforced Thermoplastic Polyurethane Market: Company Product Application Footprint

Table 26. Carbon Fiber Reinforced Thermoplastic Polyurethane Competitive Factors

Table 27. Carbon Fiber Reinforced Thermoplastic Polyurethane New Entrant and Capacity Expansion Plans

Table 28. Carbon Fiber Reinforced Thermoplastic Polyurethane Mergers & Acquisitions Activity

Table 29. United States VS China Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Carbon Fiber Reinforced Thermoplastic Polyurethane Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Carbon Fiber Reinforced Thermoplastic Polyurethane Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based Carbon Fiber Reinforced Thermoplastic Polyurethane Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Carbon Fiber Reinforced Thermoplastic Polyurethane Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers Carbon Fiber Reinforced Thermoplastic Polyurethane Production Market Share (2021-2026)

Table 37. China Based Carbon Fiber Reinforced Thermoplastic Polyurethane Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value, (2021-2026) & (USD Million)

- Table 39. China Based Manufacturers Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value Market Share (2021-2026)
- Table 40. China Based Manufacturers Carbon Fiber Reinforced Thermoplastic Polyurethane Production, (2021-2026) & (Tons)
- Table 41. China Based Manufacturers Carbon Fiber Reinforced Thermoplastic Polyurethane Production Market Share (2021-2026)
- Table 42. Rest of World Based Carbon Fiber Reinforced Thermoplastic Polyurethane Manufacturers, Headquarters and Production Site (State, Country)
- Table 43. Rest of World Based Manufacturers Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value, (2021-2026) & (USD Million)
- Table 44. Rest of World Based Manufacturers Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value Market Share (2021-2026)
- Table 45. Rest of World Based Manufacturers Carbon Fiber Reinforced Thermoplastic Polyurethane Production, (2021-2026) & (Tons)
- Table 46. Rest of World Based Manufacturers Carbon Fiber Reinforced Thermoplastic Polyurethane Production Market Share (2021-2026)
- Table 47. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 48. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production by Type (2021-2026) & (Tons)
- Table 49. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production by Type (2027-2032) & (Tons)
- Table 50. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value by Type (2021-2026) & (USD Million)
- Table 51. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value by Type (2027-2032) & (USD Million)
- Table 52. World Carbon Fiber Reinforced Thermoplastic Polyurethane Average Price by Type (2021-2026) & (US\$/kg)
- Table 53. World Carbon Fiber Reinforced Thermoplastic Polyurethane Average Price by Type (2027-2032) & (US\$/kg)
- Table 54. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value by Morphology, (USD Million), 2021 & 2025 & 2032
- Table 55. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production by Morphology (2021-2026) & (Tons)
- Table 56. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production by Morphology (2027-2032) & (Tons)
- Table 57. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value by Morphology (2021-2026) & (USD Million)
- Table 58. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value

by Morphology (2027-2032) & (USD Million)

Table 59. World Carbon Fiber Reinforced Thermoplastic Polyurethane Average Price by Morphology (2021-2026) & (US\$/kg)

Table 60. World Carbon Fiber Reinforced Thermoplastic Polyurethane Average Price by Morphology (2027-2032) & (US\$/kg)

Table 61. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production by Application (2021-2026) & (Tons)

Table 63. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production by Application (2027-2032) & (Tons)

Table 64. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value by Application (2021-2026) & (USD Million)

Table 65. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value by Application (2027-2032) & (USD Million)

Table 66. World Carbon Fiber Reinforced Thermoplastic Polyurethane Average Price by Application (2021-2026) & (US\$/kg)

Table 67. World Carbon Fiber Reinforced Thermoplastic Polyurethane Average Price by Application (2027-2032) & (US\$/kg)

Table 68. Avient Basic Information, Manufacturing Base and Competitors

Table 69. Avient Major Business

Table 70. Avient Carbon Fiber Reinforced Thermoplastic Polyurethane Product and Services

Table 71. Avient Carbon Fiber Reinforced Thermoplastic Polyurethane Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Avient Recent Developments/Updates

Table 73. Avient Competitive Strengths & Weaknesses

Table 74. Celanese Basic Information, Manufacturing Base and Competitors

Table 75. Celanese Major Business

Table 76. Celanese Carbon Fiber Reinforced Thermoplastic Polyurethane Product and Services

Table 77. Celanese Carbon Fiber Reinforced Thermoplastic Polyurethane Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Celanese Recent Developments/Updates

Table 79. Celanese Competitive Strengths & Weaknesses

Table 80. Envalior Basic Information, Manufacturing Base and Competitors

Table 81. Envalior Major Business

- Table 82. Envalior Carbon Fiber Reinforced Thermoplastic Polyurethane Product and Services
- Table 83. Envalior Carbon Fiber Reinforced Thermoplastic Polyurethane Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 84. Envalior Recent Developments/Updates
- Table 85. Envalior Competitive Strengths & Weaknesses
- Table 86. Toray Basic Information, Manufacturing Base and Competitors
- Table 87. Toray Major Business
- Table 88. Toray Carbon Fiber Reinforced Thermoplastic Polyurethane Product and Services
- Table 89. Toray Carbon Fiber Reinforced Thermoplastic Polyurethane Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 90. Toray Recent Developments/Updates
- Table 91. Toray Competitive Strengths & Weaknesses
- Table 92. RTP Company Basic Information, Manufacturing Base and Competitors
- Table 93. RTP Company Major Business
- Table 94. RTP Company Carbon Fiber Reinforced Thermoplastic Polyurethane Product and Services
- Table 95. RTP Company Carbon Fiber Reinforced Thermoplastic Polyurethane Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 96. RTP Company Recent Developments/Updates
- Table 97. RTP Company Competitive Strengths & Weaknesses
- Table 98. Carbon (Xiamen) New Material Basic Information, Manufacturing Base and Competitors
- Table 99. Carbon (Xiamen) New Material Major Business
- Table 100. Carbon (Xiamen) New Material Carbon Fiber Reinforced Thermoplastic Polyurethane Product and Services
- Table 101. Carbon (Xiamen) New Material Carbon Fiber Reinforced Thermoplastic Polyurethane Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 102. Carbon (Xiamen) New Material Recent Developments/Updates
- Table 103. Carbon (Xiamen) New Material Competitive Strengths & Weaknesses
- Table 104. Xiamen LFT Composite Plastic Basic Information, Manufacturing Base and Competitors
- Table 105. Xiamen LFT Composite Plastic Major Business
- Table 106. Xiamen LFT Composite Plastic Carbon Fiber Reinforced Thermoplastic

Polyurethane Product and Services

Table 107. Xiamen LFT Composite Plastic Carbon Fiber Reinforced Thermoplastic Polyurethane Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 108. Xiamen LFT Composite Plastic Recent Developments/Updates

Table 109. Xiamen LFT Composite Plastic Competitive Strengths & Weaknesses

Table 110. Global Key Players of Carbon Fiber Reinforced Thermoplastic Polyurethane Upstream (Raw Materials)

Table 111. Global Carbon Fiber Reinforced Thermoplastic Polyurethane Typical Customers

Table 112. Carbon Fiber Reinforced Thermoplastic Polyurethane Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Carbon Fiber Reinforced Thermoplastic Polyurethane Picture

Figure 2. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production (2021-2032) & (Tons)

Figure 5. World Carbon Fiber Reinforced Thermoplastic Polyurethane Average Price (2021-2032) & (US\$/kg)

Figure 6. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value Market Share by Region (2021-2032)

Figure 7. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Market Share by Region (2021-2032)

Figure 8. North America Carbon Fiber Reinforced Thermoplastic Polyurethane Production (2021-2032) & (Tons)

Figure 9. Europe Carbon Fiber Reinforced Thermoplastic Polyurethane Production (2021-2032) & (Tons)

Figure 10. China Carbon Fiber Reinforced Thermoplastic Polyurethane Production (2021-2032) & (Tons)

Figure 11. Japan Carbon Fiber Reinforced Thermoplastic Polyurethane Production (2021-2032) & (Tons)

Figure 12. Carbon Fiber Reinforced Thermoplastic Polyurethane Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Carbon Fiber Reinforced Thermoplastic Polyurethane Consumption (2021-2032) & (Tons)

Figure 15. World Carbon Fiber Reinforced Thermoplastic Polyurethane Consumption Market Share by Region (2021-2032)

Figure 16. United States Carbon Fiber Reinforced Thermoplastic Polyurethane Consumption (2021-2032) & (Tons)

Figure 17. China Carbon Fiber Reinforced Thermoplastic Polyurethane Consumption (2021-2032) & (Tons)

Figure 18. Europe Carbon Fiber Reinforced Thermoplastic Polyurethane Consumption (2021-2032) & (Tons)

Figure 19. Japan Carbon Fiber Reinforced Thermoplastic Polyurethane Consumption (2021-2032) & (Tons)

Figure 20. South Korea Carbon Fiber Reinforced Thermoplastic Polyurethane Consumption (2021-2032) & (Tons)

Figure 21. ASEAN Carbon Fiber Reinforced Thermoplastic Polyurethane Consumption (2021-2032) & (Tons)

Figure 22. India Carbon Fiber Reinforced Thermoplastic Polyurethane Consumption (2021-2032) & (Tons)

Figure 23. Producer Shipments of Carbon Fiber Reinforced Thermoplastic Polyurethane by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Carbon Fiber Reinforced Thermoplastic Polyurethane Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Carbon Fiber Reinforced Thermoplastic Polyurethane Markets in 2025

Figure 26. United States VS China: Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Carbon Fiber Reinforced Thermoplastic Polyurethane Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Carbon Fiber Reinforced Thermoplastic Polyurethane Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Carbon Fiber Reinforced Thermoplastic Polyurethane Production Market Share 2025

Figure 30. China Based Manufacturers Carbon Fiber Reinforced Thermoplastic Polyurethane Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Carbon Fiber Reinforced Thermoplastic Polyurethane Production Market Share 2025

Figure 32. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value Market Share by Type in 2025

Figure 34. Short Carbon Fiber

Figure 35. Long Carbon Fiber

Figure 36. Continuous Carbon Fiber

Figure 37. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Market Share by Type (2021-2032)

Figure 38. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value Market Share by Type (2021-2032)

Figure 39. World Carbon Fiber Reinforced Thermoplastic Polyurethane Average Price by Type (2021-2032) & (US\$/kg)

Figure 40. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value by Morphology, (USD Million), 2021 & 2025 & 2032

Figure 41. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value Market Share by Morphology in 2025

Figure 42. Particles

Figure 43. Prepreg

Figure 44. Other

Figure 45. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Market Share by Morphology (2021-2032)

Figure 46. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value Market Share by Morphology (2021-2032)

Figure 47. World Carbon Fiber Reinforced Thermoplastic Polyurethane Average Price by Morphology (2021-2032) & (US\$/kg)

Figure 48. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 49. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value Market Share by Application in 2025

Figure 50. Automotive

Figure 51. Medical

Figure 52. Sports Equipment

Figure 53. Other

Figure 54. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Market Share by Application (2021-2032)

Figure 55. World Carbon Fiber Reinforced Thermoplastic Polyurethane Production Value Market Share by Application (2021-2032)

Figure 56. World Carbon Fiber Reinforced Thermoplastic Polyurethane Average Price by Application (2021-2032) & (US\$/kg)

Figure 57. Carbon Fiber Reinforced Thermoplastic Polyurethane Industry Chain

Figure 58. Carbon Fiber Reinforced Thermoplastic Polyurethane Procurement Model

Figure 59. Carbon Fiber Reinforced Thermoplastic Polyurethane Sales Model

Figure 60. Carbon Fiber Reinforced Thermoplastic Polyurethane Sales Channels, Direct Sales, and Distribution

Figure 61. Methodology

Figure 62. Research Process and Data Source

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