

Fiber-Reinforced Polymer Market Forecasts to 2034 – Global Analysis By Fiber Type (Glass Fiber, Carbon Fiber, Aramid Fiber, Natural Fiber, and Other Fiber Types), Resin Type, Product Type, End-Use Industry, and By Geography

<https://marketpublishers.com/r/F26B0D2A5949EN.html>

Date: September 2026

Pages: 200

Price: US\$ 4,150.00 (Single User License)

ID: F26B0D2A5949EN

Abstracts

According to Statistics MRC, the Global Fiber-Reinforced Polymer Market is accounted for \$117.9 billion in 2026 and is expected to reach \$187.9 billion by 2034 growing at a CAGR of 6.0% during the forecast period. Fiber-reinforced polymer (FRP) composites are advanced materials consisting of reinforcing fibers embedded in polymer resin matrices, offering exceptional strength-to-weight ratios, corrosion resistance, and design flexibility. The market encompasses glass fiber, carbon fiber, aramid fiber, natural fiber, and other fiber types combined with polyester, vinyl ester, epoxy, polyamide, polyurethane, and other resin systems. FRP products including sheets, panels, bars, rods, pipes, tubes, profiles, and rebars serve construction, automotive, aerospace, electrical, wind energy, marine, industrial, and sports applications.

Market Dynamics:

Driver:

Growing demand for corrosion-resistant and lightweight materials

The increasing need for corrosion-resistant, lightweight, and durable materials across industries is a primary driver for the fiber-reinforced polymer market. FRP composites offer superior corrosion resistance compared to traditional materials including steel and aluminum, extending service life in harsh environments. Infrastructure applications including bridges, pipelines, and chemical processing facilities are adopting FRP for

durability. Automotive and aerospace industries benefit from weight reduction and fuel efficiency. As industries prioritize performance and longevity, FRP demand expands across all major applications.

Restraint:

High material costs and limited design standards

The significant cost premium of fiber-reinforced polymers compared to conventional materials and limited standardized design codes represent major restraints for the market. Carbon fiber reinforced polymers are substantially more expensive than steel or aluminum. Limited familiarity among engineers and architects may slow adoption. Design standards for FRP structures are less developed than those for traditional materials. These cost and standardization challenges may constrain market growth, particularly in cost-sensitive construction applications.

Opportunity:

Expansion of infrastructure rehabilitation and renewable energy applications

The growing need for infrastructure rehabilitation and expansion of renewable energy applications presents significant opportunities for the fiber-reinforced polymer market. FRP composites are increasingly used for bridge deck replacement, pipe rehabilitation, and seismic retrofitting. Wind energy blade production relies heavily on FRP composites. Growing investment in water and wastewater infrastructure creates demand for FRP pipes and tanks. As infrastructure ages and renewable energy capacity expands, FRP applications capture growing market share.

Threat:

Competition from traditional materials and alternative composites

Intense competition from traditional materials including steel, aluminum, and concrete, as well as alternative composites poses significant threats to fiber-reinforced polymer market growth. Traditional materials offer established design standards, lower costs, and widespread availability. Steel and concrete remain dominant in construction applications. Alternative composites including natural fiber composites offer sustainable options. This competition may limit market share, particularly in cost-sensitive applications.

Covid-19 Impact:

The COVID-19 pandemic had a mixed impact on the fiber-reinforced polymer market. Initial disruptions included supply chain interruptions, manufacturing slowdowns, and reduced construction activity. However, infrastructure investment continued as a strategic priority. Wind energy and renewable energy projects advanced. Post-pandemic, construction and infrastructure investment have recovered strongly, with continued focus on durable, sustainable materials supporting market growth.

The Glass Fiber segment is expected to be the largest during the forecast period

The Glass Fiber segment is expected to account for the largest market share during the forecast period, driven by its cost-effectiveness, versatility, and established use across multiple industries including construction, automotive, marine, and industrial applications. Glass fiber reinforced polymers offer an excellent balance of performance and cost, making them the preferred choice for most composite applications. The segment benefits from extensive manufacturing infrastructure and established supply chains. Growing construction and infrastructure investment supports sustained demand. As the most widely used reinforcement fiber, glass fiber maintains the largest fiber type segment share.

The Wind Energy segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the Wind Energy segment is predicted to witness the highest growth rate, fueled by the rapid expansion of global wind power capacity and the increasing size of wind turbine blades requiring advanced fiber-reinforced polymer composites. Wind turbine blades are manufactured almost exclusively from glass and carbon fiber reinforced polymers. The segment benefits from aggressive renewable energy targets and wind power capacity expansion. Increasing turbine size drives material demand. As wind energy capacity continues growing, this end-use industry delivers the fastest segment growth.

Region with largest share:

During the forecast period, the Asia-Pacific region is expected to hold the largest market share, supported by massive construction activity, expanding manufacturing base, and growing wind energy installations across China, India, and Southeast Asia. China leads global FRP production and consumption, driving substantial market volume. The

region's large and growing infrastructure investment creates sustained demand. Wind energy expansion supports composite consumption. With concentrated manufacturing and growing end-use markets, Asia Pacific maintains its dominant market position.

Region with highest CAGR:

Over the forecast period, the Asia-Pacific region is anticipated to exhibit the highest CAGR, driven by continued infrastructure investment, rapid industrialization, and expanding renewable energy capacity across emerging economies. The region's large and growing construction sector creates substantial demand for FRP composites. Government infrastructure development programs support market growth. Growing wind energy capacity drives composite adoption. As industrial activity and infrastructure investment continue expanding, Asia Pacific delivers the fastest fiber-reinforced polymer market growth globally.

Key players in the market

Some of the key players in Fiber-Reinforced Polymer Market include Owens Corning, SGL Carbon SE, Hexcel Corporation, Solvay S.A., Toray Industries, Inc., Teijin Limited, Mitsubishi Chemical Group Corporation, Gurit Holding AG, Hexion Inc., Huntsman Corporation, Scott Bader Company Limited, Avient Corporation, BASF SE, Covestro AG, and LANXESS AG.

Key Developments:

In September 2026, Avient Corporation unveiled new simulation-ready material cards for finite element analysis and expanded its Polystrand™ thermoplastic tape line with nylon 6, PET, and HDPE grades to accelerate prototyping for structural lightweight composites.

In July 2026, Mitsubishi Chemical Group Corporation launched TM-HT and TM-HS under its Xlink Tech™ prepreg series, designed to elevate impact damage tolerance and structural stiffness in high-modulus carbon fiber-reinforced polymers.

In July 2026, Teijin Limited unveiled a circular thermosetting long carbon fiber-reinforced polymer (CFRP) integrating heat-activated self-healing and low-temperature chemical resin dissolution to allow carbon fiber separation and composite component repair.

In April 2026, Huntsman Advanced Materials introduced reformulated FST (fire, smoke, and toxicity) compliant structural adhesives engineered specifically for thermoplastic-to-composite bonding inside aircraft cabin interiors at SAMPE 2026.

Fiber Types Covered:

Glass Fiber

Carbon Fiber

Aramid Fiber

Natural Fiber

Other Fiber Types

Resin Types Covered:

Polyester

Vinyl Ester

Epoxy

Polyamide

Polyurethane

Other Resin Types

Product Types Covered:

Sheets and Panels

Bars and Rods

Pipes and Tubes

Profiles

Rebars

Other Product Types

End-Use Industries Covered:

Construction and Infrastructure

Automotive and Transportation

Aerospace and Defense

Electrical and Electronics

Wind Energy

Marine

Industrial

Sports and Leisure

Other End-Use Industries

Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

Africa

South Africa

Egypt

Morocco

Rest of Africa

What our report offers:

Market share assessments for the regional and country-level segments

Strategic recommendations for the new entrants

Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

Contents

1 EXECUTIVE SUMMARY

- 1.1 Market Snapshot and Key Highlights
- 1.2 Growth Drivers, Challenges, and Opportunities
- 1.3 Competitive Landscape Overview
- 1.4 Strategic Insights and Recommendations

2 RESEARCH FRAMEWORK

- 2.1 Study Objectives and Scope
- 2.2 Stakeholder Analysis
- 2.3 Research Assumptions and Limitations
- 2.4 Research Methodology
 - 2.4.1 Data Collection (Primary and Secondary)
 - 2.4.2 Data Modeling and Estimation Techniques
 - 2.4.3 Data Validation and Triangulation
 - 2.4.4 Analytical and Forecasting Approach

3 MARKET DYNAMICS AND TREND ANALYSIS

- 3.1 Market Definition and Structure
- 3.2 Key Market Drivers
- 3.3 Market Restraints and Challenges
- 3.4 Growth Opportunities and Investment Hotspots
- 3.5 Industry Threats and Risk Assessment
- 3.6 Technology and Innovation Landscape
- 3.7 Emerging and High-Growth Markets
- 3.8 Regulatory and Policy Environment
- 3.9 Impact of COVID-19 and Recovery Outlook

4 COMPETITIVE AND STRATEGIC ASSESSMENT

- 4.1 Porter's Five Forces Analysis
 - 4.1.1 Supplier Bargaining Power
 - 4.1.2 Buyer Bargaining Power
 - 4.1.3 Threat of Substitutes
 - 4.1.4 Threat of New Entrants

- 4.1.5 Competitive Rivalry
- 4.2 Market Share Analysis of Key Players
- 4.3 Product Benchmarking and Performance Comparison

5 GLOBAL FIBER-REINFORCED POLYMER MARKET, BY FIBER TYPE

- 5.1 Glass Fiber
- 5.2 Carbon Fiber
- 5.3 Aramid Fiber
- 5.4 Natural Fiber
- 5.5 Other Fiber Types

6 GLOBAL FIBER-REINFORCED POLYMER MARKET, BY RESIN TYPE

- 6.1 Polyester
- 6.2 Vinyl Ester
- 6.3 Epoxy
- 6.4 Polyamide
- 6.5 Polyurethane
- 6.6 Other Resin Types

7 GLOBAL FIBER-REINFORCED POLYMER MARKET, BY PRODUCT TYPE

- 7.1 Sheets and Panels
- 7.2 Bars and Rods
- 7.3 Pipes and Tubes
- 7.4 Profiles
- 7.5 Rebars
- 7.6 Other Product Types

8 GLOBAL FIBER-REINFORCED POLYMER MARKET, BY END-USE INDUSTRY

- 8.1 Construction and Infrastructure
- 8.2 Automotive and Transportation
- 8.3 Aerospace and Defense
- 8.4 Electrical and Electronics
- 8.5 Wind Energy
- 8.6 Marine
- 8.7 Industrial

8.8 Sports and Leisure

8.9 Other End-Use Industries

9 GLOBAL FIBER-REINFORCED POLYMER MARKET, BY GEOGRAPHY

9.1 North America

9.1.1 United States

9.1.2 Canada

9.1.3 Mexico

9.2 Europe

9.2.1 United Kingdom

9.2.2 Germany

9.2.3 France

9.2.4 Italy

9.2.5 Spain

9.2.6 Netherlands

9.2.7 Belgium

9.2.8 Sweden

9.2.9 Switzerland

9.2.10 Poland

9.2.11 Rest of Europe

9.3 Asia Pacific

9.3.1 China

9.3.2 Japan

9.3.3 India

9.3.4 South Korea

9.3.5 Australia

9.3.6 Indonesia

9.3.7 Thailand

9.3.8 Malaysia

9.3.9 Singapore

9.3.10 Vietnam

9.3.11 Rest of Asia Pacific

9.4 South America

9.4.1 Brazil

9.4.2 Argentina

9.4.3 Colombia

9.4.4 Chile

9.4.5 Peru

9.4.6 Rest of South America

9.5 Rest of the World (RoW)

9.5.1 Middle East

9.5.1.1 Saudi Arabia

9.5.1.2 United Arab Emirates

9.5.1.3 Qatar

9.5.1.4 Israel

9.5.1.5 Rest of Middle East

9.5.2 Africa

9.5.2.1 South Africa

9.5.2.2 Egypt

9.5.2.3 Morocco

9.5.2.4 Rest of Africa

10 STRATEGIC MARKET INTELLIGENCE

10.1 Industry Value Network and Supply Chain Assessment

10.2 White-Space and Opportunity Mapping

10.3 Product Evolution and Market Life Cycle Analysis

10.4 Channel, Distributor, and Go-to-Market Assessment

11 INDUSTRY DEVELOPMENTS AND STRATEGIC INITIATIVES

11.1 Mergers and Acquisitions

11.2 Partnerships, Alliances, and Joint Ventures

11.3 New Product Launches and Certifications

11.4 Capacity Expansion and Investments

11.5 Other Strategic Initiatives

12 COMPANY PROFILES

12.1 Owens Corning

12.2 SGL Carbon SE

12.3 Hexcel Corporation

12.4 Solvay S.A.

12.5 Toray Industries, Inc.

12.6 Teijin Limited

12.7 Mitsubishi Chemical Group Corporation

12.8 Gurit Holding AG

12.9 Hexion Inc.

12.10 Huntsman Corporation

12.11 Scott Bader Company Limited

12.12 Avient Corporation

12.13 BASF SE

12.14 Covestro AG

12.15 LANXESS AG

List of Tables

Table 1 Global Fiber-Reinforced Polymer Market Outlook, By Region (2023–2034)
(\$MN)

Table 2 Global Fiber-Reinforced Polymer Market Outlook, By Fiber Type (2023–2034)
(\$MN)

Table 3 Global Fiber-Reinforced Polymer Market Outlook, By Glass Fiber (2023–2034)
(\$MN)

Table 4 Global Fiber-Reinforced Polymer Market Outlook, By Carbon Fiber (2023–2034)
(\$MN)

Table 5 Global Fiber-Reinforced Polymer Market Outlook, By Aramid Fiber (2023–2034)
(\$MN)

Table 6 Global Fiber-Reinforced Polymer Market Outlook, By Natural Fiber (2023–2034)
(\$MN)

Table 7 Global Fiber-Reinforced Polymer Market Outlook, By Other Fiber Types
(2023–2034) (\$MN)

Table 8 Global Fiber-Reinforced Polymer Market Outlook, By Resin Type (2023–2034)
(\$MN)

Table 9 Global Fiber-Reinforced Polymer Market Outlook, By Polyester (2023–2034)
(\$MN)

Table 10 Global Fiber-Reinforced Polymer Market Outlook, By Vinyl Ester (2023–2034)
(\$MN)

Table 11 Global Fiber-Reinforced Polymer Market Outlook, By Epoxy (2023–2034)
(\$MN)

Table 12 Global Fiber-Reinforced Polymer Market Outlook, By Polyamide (2023–2034)
(\$MN)

Table 13 Global Fiber-Reinforced Polymer Market Outlook, By Polyurethane
(2023–2034) (\$MN)

Table 14 Global Fiber-Reinforced Polymer Market Outlook, By Other Resin Types
(2023–2034) (\$MN)

Table 15 Global Fiber-Reinforced Polymer Market Outlook, By Product Type
(2023–2034) (\$MN)

Table 16 Global Fiber-Reinforced Polymer Market Outlook, By Sheets and Panels

(2023–2034) (\$MN)

Table 17 Global Fiber-Reinforced Polymer Market Outlook, By Bars and Rods

(2023–2034) (\$MN)

Table 18 Global Fiber-Reinforced Polymer Market Outlook, By Pipes and Tubes

(2023–2034) (\$MN)

Table 19 Global Fiber-Reinforced Polymer Market Outlook, By Profiles (2023–2034) (\$MN)

Table 20 Global Fiber-Reinforced Polymer Market Outlook, By Rebars (2023–2034) (\$MN)

Table 21 Global Fiber-Reinforced Polymer Market Outlook, By Other Product Types (2023–2034) (\$MN)

Table 22 Global Fiber-Reinforced Polymer Market Outlook, By End-Use Industry (2023–2034) (\$MN)

Table 23 Global Fiber-Reinforced Polymer Market Outlook, By Construction and Infrastructure (2023–2034) (\$MN)

Table 24 Global Fiber-Reinforced Polymer Market Outlook, By Automotive and Transportation (2023–2034) (\$MN)

Table 25 Global Fiber-Reinforced Polymer Market Outlook, By Aerospace and Defense (2023–2034) (\$MN)

Table 26 Global Fiber-Reinforced Polymer Market Outlook, By Electrical and Electronics (2023–2034) (\$MN)

Table 27 Global Fiber-Reinforced Polymer Market Outlook, By Wind Energy (2023–2034) (\$MN)

Table 28 Global Fiber-Reinforced Polymer Market Outlook, By Marine (2023–2034) (\$MN)

Table 29 Global Fiber-Reinforced Polymer Market Outlook, By Industrial (2023–2034) (\$MN)

Table 30 Global Fiber-Reinforced Polymer Market Outlook, By Sports and Leisure (2023–2034) (\$MN)

Table 31 Global Fiber-Reinforced Polymer Market Outlook, By Other End-Use Industries (2023–2034) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Rest of the World (RoW) Regions are also represented in the same manner as above.

I would like to order

Product name: Fiber-Reinforced Polymer Market Forecasts to 2034 – Global Analysis By Fiber Type (Glass Fiber, Carbon Fiber, Aramid Fiber, Natural Fiber, and Other Fiber Types), Resin Type, Product Type, End-Use Industry, and By Geography

Product link: <https://marketpublishers.com/r/F26B0D2A5949EN.html>

Price: US\$ 4,150.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/F26B0D2A5949EN.html>