

Global Composites Market Size Study and Forecast by Fiber Type (Glass Fiber, Carbon Fiber, Natural Fiber, Others), By Process (Injection Molding, Lay-Up, Filament Winding, Compression Molding, Pultrusion, RTM, Others), By Resin Type (Thermoset Composites, Thermoplastic Composites), By End-Use Industry , and Regional Forecasts 2026–2036

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Abstracts

Global Composites Market Definition & Scope

The Global Composites Market, valued at USD 45.76 Billion in 2025, is projected to reach USD 71.10 Billion by 2036, expanding at a CAGR of 4.26% during the forecast period. The market consists of engineered materials that are manufactured by combining reinforcing fibers with polymer resin matrices to form lightweight, high-strength, corrosion-resistant and durable composite structures. Composites offer improved mechanical performance, design flexibility, fatigue resistance and weight reduction over traditional materials. This makes them more and more relevant across a great variety of applications from transportation and infrastructure to renewable energy, aerospace, marine and industrial applications. The market includes reinforcement materials such as Glass Fiber, Carbon Fiber, Natural Fiber, and others, which are produced thru processing methods such as Injection Molding, Lay-Up, Filament Winding, Compression Molding, Pultrusion, Resin Transfer Molding (RTM), and others. These materials are made from Thermoset Composites and Thermoplastic Composites and are utilized in end-use industries including Automotive & Transportation, Construction & Infrastructure, Wind Energy, Electrical & Electronics, Aerospace & Defense, Sporting and Consumer Goods, Oil and Gas, Marine, and Others.

The market is witnessing steady growth driven by increasing demand for lightweight materials, expanding renewable energy infrastructure, increasing automotive lightweighting initiatives, and increasing adoption of high-performance materials across industrial sectors. Manufacturers are increasing their investment in advanced composite manufacturing technologies, automated production systems, recyclable composite materials and next generation resin systems to enhance mechanical performance, production efficiency and sustainability. Technologies like carbon fiber manufacturing, thermoplastic composites, automated fiber placement (AFP), additive manufacturing, digital composite engineering and bio-based composite materials are progressing, increasing the opportunities in applications and reducing production costs. The market demand is also aided by rising investments in electric vehicles, wind turbine blades, aerospace structures, smart infrastructure, marine vessels, industrial equipment. Moreover, the global composites market is likely to grow in the long term during the forecast period due to increasing focus on reducing carbon emissions, fuel efficiency, recyclable composite technologies and strategic alliances between material suppliers, OEMs and composite manufacturers.

Global Composites Market: Key Highlights

The Global Composites Market is projected to reach USD 45.76 Billion in 2025, driven by the increasing demand for lightweight and high-strength materials in automotive, aerospace, wind energy, construction and industrial applications.

The market is expected to reach USD 71.10 Billion by 2036, growing at a CAGR of 4.26% for the period 2026-2036. The growth is driven by increasing adoption of lightweight materials to improve fuel efficiency, installation of renewable energy sources, increasing production of electric vehicles and continuous development of composite manufacturing technologies.

Asia Pacific is the top region in the global market and is estimated to have 41.2% share in 2025. China, India, Japan and South Korea have powerful manufacturing bases, growing auto production, expanding wind-energy installations, rapid infrastructure development and rising aerospace investment.

The North American market is projected to witness the highest CAGR of 4.9% between 2026-2036, owing to rising demand from aerospace and defense, electric vehicles, renewable energy projects, advanced manufacturing, and high-performance industrial applications.

Glass Fiber is the most dominant fiber type segment with an estimated market share of 67.4% in 2025. The segment's leadership is attributed to its cost-effectiveness, high strength-to-weight ratio, corrosion resistance and broad acceptance in construction, transportation, wind energy and marine applications.

Carbon Fiber is expected to witness the highest CAGR of 5.3% during the forecast period owing to the growing demand for lightweight and high-performance materials in aerospace, electric vehicles, sporting goods, and advanced industrial applications.

Lay-Up dominates the process segment with an expected share of 29.6% in 2025 owing to its extensive use in manufacturing large composite structures for marine, wind energy, construction and aerospace applications.

Resin Transfer Molding (RTM) is expected to register the highest CAGR of 5.2% during 2026–2036, owing to the rising automation, improved production efficiency, improved dimensional accuracy, and increasing adoption in automotive and aerospace manufacturing.

The Thermoset Composites segment held a dominant share in the resin type segment with an estimated 69.8% share in 2025 owing to the excellent mechanical strength, thermal stability, chemical resistance and wide range of applications in structural composites.

Higher spending on advanced carbon fiber production, recyclable thermoplastic composites, automated composite manufacturing, wind energy infrastructure, electric vehicles, aerospace innovation and sustainable composite materials are all expected to provide great long-term opportunities for composite manufacturers, material suppliers, OEMs and industrial technology providers.

Research Scope & Methodology

The Global Composites Market report offers a complete strategic assessment of the Global Composites Market for the forecast period of 2026-2036. The report covers market size, revenue forecasts, competitive landscape, technological advancements, sustainability trends, and new investment opportunities that are shaping the global composites industry. The analysis considers the entire composites value chain from fiber production, resin production, composite production, processing technologies,

component manufacture and end use deployment in transportation, construction, renewable energy, aerospace, marine, electrical and industrial applications. The market is analyzed based on Fiber Type (Glass Fiber, Carbon Fiber, Natural Fiber, Others), Process (Injection Molding, Lay-Up, Filament Winding, Compression Molding, Pultrusion, Resin Transfer Molding (RTM), Others), Resin Type (Thermoset Composites, Thermoplastic Composites), and End-Use Industry (Automotive & Transportation, Construction & Infrastructure, Wind Energy, Electrical & Electronics, Aerospace & Defense, Sporting and Consumer Goods, Oil and Gas, Marine, Others). The Regional Analysis includes North America, Europe, Asia Pacific and LAMEA and evaluates the manufacturing capability, infrastructure investment, renewable energy deployment, automotive production, aerospace development and sustainability initiatives influencing regional market expansion. This report also covers progress in carbon fiber manufacturing, thermoplastic composites, automated fiber placement (AFP), resin transfer molding, additive manufacturing, recyclable composites, and bio-based composites that are changing the competitive dynamics of the global composites industry.

Our research methodology combines extensive primary and secondary research to provide reliable market intelligence and robust long-term forecasting. Primary research included structured interviews with composite manufacturers, raw material suppliers, automotive OEMs, aerospace, wind turbine, construction, distributors, industry associations, and market experts in major global markets. Secondary sources for research include composites associations publications, government publishing sources, company annual reports, investor presentations, scientific journals, technical publications, sustainability reports, and validated market intelligence sources. The market estimates are developed using both top-down and bottom-up approaches and are validated thru data triangulation to assure accuracy in all segment and regional analyzes. Forecast models incorporate demand for historical composites, manufacturing patterns, infrastructure investments, renewable energy deployment, regulatory developments and macroeconomic indicators. Competitive benchmarking includes product portfolio, manufacturing capacity, geographical presence, investment in research and development, strategic collaborations, sustainability initiatives and innovation pipeline of the key participants in the market to understand the evolving competitive scenario in the Global Composites Market.

Key Market Segments

By Fiber Type

Glass Fiber

Carbon Fiber

Natural Fiber

Others

By Process

Injection Molding

Lay-Up

Filament Winding

Compression Molding

Pultrusion

RTM (Resin Transfer Molding)

Others

By Resin Type

Thermoset Composites

Thermoplastic Composites

By End-Use Industry

Automotive & Transportation

Construction & Infrastructure

Wind Energy

Electrical & Electronics

Aerospace & Defense

Sporting and Consumer Goods

Oil and Gas

Marine

Others

Key Market Players

Huntsman Corporation LLC

SGL Group

Hexcel Corporation

Compagnie de Saint-Gobain S.A.

Weyerhaeuser Company

Momentive Performance Materials, Inc.

Cytec Industries (Solvay, S.A.)

China Jushi Co., Ltd.

Kinenco Limited

Veplas Group

Industry Trends

The push for lightweight material adoption is gaining traction across automotive, aerospace and transportation sectors with manufacturers increasingly replacing

conventional metals with advanced composites to improve fuel efficiency, enhance electric vehicle range and reduce overall structural weight.

Advances in manufacturing technologies, reduction in production costs and increasing demand for high performance materials in aerospace, electric vehicles, wind energy and defense applications are driving the rise of carbon fiber composites.

Manufacturers are increasingly turning to thermoplastic composites, seeking materials that are recyclable, lightweight and fast-processing, offering shorter production cycles, improved impact resistance and greater compatibility with automated manufacturing systems.

Increasing wind energy capacity is driving demand for high-performance composite materials for larger, more efficient turbine blades, improving durability, fatigue resistance, and structural performance of renewable energy infrastructure.

Automation and digital manufacturing technologies, including automated fiber placement (AFP), robotic lay-up systems, digital twins, AI-enabled process monitoring, and advanced quality inspection are improving production efficiency, product consistency, and manufacturing scalability.

The development of sustainable composites is increasingly becoming a priority for the industry, as manufacturers are investing in bio-based resins, natural fiber composites, recyclable thermoplastic systems and circular manufacturing technologies to reduce environmental impact and enhance end-of-life material recovery.

The additive manufacturing and hybrid composite fabrication methods are expanding the design freedom by enabling manufacturing of lightweight complex geometries while decreasing the functional material waste and increasing the product development speed in the industrial applications.

Composite materials are increasingly being used in bridges, buildings, utility infrastructure, pipelines and reinforcement systems in infrastructure modernization and smart construction projects because of their corrosion resistance, durability and long service life.

Aerospace manufacturers are continuing to increase the use of composites in aircraft structures, interiors, engine components and next-generation air mobility platforms to improve fuel efficiency, reduce maintenance requirements and enhance structural performance.

The industry continues to accelerate innovation thru strategic collaborations between composite manufacturers, resin suppliers, fiber producers, automotive OEMs, aerospace companies, wind turbine manufacturers and research institutions. Long-term growth of the global composites market thru 2036 likely will be driven by investments in advanced carbon fiber production, thermoplastic composites, automated composite manufacturing, recyclable materials, bio-based resin systems, and digital composite engineering.

Market Determinants

Growing Demand for Lightweight and High-Performance Materials: Increasing adoption of lightweight materials across automotive, aerospace, wind energy, marine, and construction industries is a major driver of the composites market. Composites offer high strength-to-weight ratios, corrosion resistance, and superior durability, enabling manufacturers to improve fuel efficiency, structural performance, and product lifespan.

Expansion of Renewable Energy and Electric Vehicle Industries: Rising investments in wind power generation and electric vehicle production are accelerating demand for advanced composite materials. Wind turbine blades, EV body structures, battery enclosures, and lightweight components increasingly utilize composites to improve efficiency, reduce weight, and enhance operational performance.

Advancements in Composite Manufacturing Technologies: Continuous innovation in automated fiber placement (AFP), resin transfer molding (RTM), thermoplastic composites, additive manufacturing, and digital process control is improving manufacturing efficiency, reducing production costs, enhancing product consistency, and expanding application opportunities across multiple industries.

Increasing Infrastructure Development and Industrial Applications: Growing investments in modern infrastructure, bridges, buildings, pipelines, marine

structures, and industrial equipment are supporting the adoption of composite materials due to their excellent corrosion resistance, low maintenance requirements, long service life, and structural reliability.

High Manufacturing Costs and Complex Production Processes: Advanced composite materials, particularly carbon fiber composites, require specialized raw materials, sophisticated manufacturing equipment, and skilled labor. High production costs and complex fabrication processes remain key challenges limiting wider adoption in cost-sensitive industries.

Recycling Challenges and Raw Material Supply Constraints: Recycling thermoset composites remains technically challenging, while fluctuations in the availability and pricing of carbon fibers, specialty resins, and other raw materials can affect production costs and supply chain stability. Increasing environmental regulations are also encouraging manufacturers to invest in recyclable composite technologies and sustainable material solutions.

Opportunity Mapping Based on Market Trends

Expansion of Electric Vehicles and Sustainable Transportation: Increasing production of electric vehicles, lightweight commercial vehicles, rail systems, and next-generation aircraft is creating significant opportunities for advanced composite materials that reduce structural weight, improve energy efficiency, extend battery range, and lower lifecycle emissions.

Growing Demand for Recyclable and Bio-Based Composite Materials: Rising environmental regulations and corporate sustainability commitments are creating substantial opportunities for recyclable thermoplastic composites, natural fiber composites, bio-based resin systems, and circular composite manufacturing technologies that reduce environmental impact while maintaining high mechanical performance.

Advancements in Automated Composite Manufacturing and Smart Production: Increasing adoption of automated fiber placement (AFP), robotic manufacturing, digital twins, additive manufacturing, AI-enabled quality inspection, and intelligent process monitoring is creating opportunities to improve production efficiency, reduce manufacturing costs, and enable high-volume composite production across automotive, aerospace, and industrial sectors.

Expansion of Renewable Energy and High-Performance Infrastructure: Growing investments in wind energy, smart infrastructure, marine engineering, oil and gas, and advanced industrial applications across North America, Europe, Asia Pacific, and emerging economies are creating substantial long-term opportunities. Companies investing in high-performance carbon fiber technologies, advanced thermoplastic composites, automated manufacturing systems, sustainable resin development, recyclable composite solutions, and next-generation lightweight materials will be well positioned to capitalize on the accelerating global demand for composites through 2036.

Value-Creating Segments and Growth Pockets

Cost-Effectiveness and Versatility Sustain Glass Fiber Leadership

Glass Fiber is projected to dominate the global composites market, accounting for approximately 67.4% share during the forecast period. The segment's leadership is supported by cost-effectiveness, excellent mechanical strength, corrosion resistance, lightweight properties, and broad application across automotive, construction, wind energy, marine, and industrial sectors. Its established manufacturing infrastructure and favorable performance-to-cost ratio continue to make glass fiber a preferred reinforcement material across high-volume composite applications.

Carbon Fiber is projected to register the highest CAGR of 5.3% during 2026–2036, driven by increasing demand for high-performance lightweight materials in aerospace, electric vehicles, defense, sporting goods, and advanced industrial applications. Its superior strength-to-weight ratio and stiffness make it particularly suitable for applications where weight reduction and structural performance are critical. Growing vehicle electrification and demand for fuel-efficient and high-performance systems are expected to further accelerate adoption.

Versatility and Cost Efficiency Sustain Lay-Up Process Leadership

Lay-Up is projected to dominate the process segment, accounting for approximately 29.6% share in 2025. The segment's leadership is supported by its versatility, cost-effectiveness, relatively simple processing requirements, and suitability for manufacturing large composite structures. Marine vessels, aerospace components, construction structures, and wind energy equipment extensively use lay-up processes.

Continued demand for large, customized composite components is expected to sustain the process's market position.

Resin Transfer Molding (RTM) is projected to register the highest CAGR of 5.2% during 2026–2036, driven by increasing automation, improved production efficiency, better dimensional accuracy, reduced material waste, and growing adoption in automotive and aerospace manufacturing. RTM enables more controlled and repeatable production of complex composite components, making it increasingly attractive for high-volume and precision applications.

Thermal and Chemical Resistance Sustain Thermoset Composite Dominance

Thermoset Composites are projected to dominate the market, accounting for approximately 69.8% share in 2025. Their leadership is supported by excellent thermal stability, chemical resistance, mechanical strength, and established use in structural components, wind turbine blades, aerospace parts, and industrial applications. Their ability to maintain structural integrity under demanding operating conditions makes them well suited to critical load-bearing applications. Continued demand for durable composite structures is expected to sustain thermoset adoption.

Thermoplastic Composites are projected to register the highest CAGR of 5.0% during 2026–2036, driven by growing demand for recyclable materials, rapid processing capabilities, improved impact resistance, and increasing adoption across automotive, aerospace, and consumer product manufacturing. Their potential for shorter processing cycles and recyclability provides advantages as manufacturers pursue greater production efficiency and more sustainable material solutions.

Lightweighting and Vehicle Electrification Sustain Automotive Leadership

Automotive & Transportation is projected to dominate the end-use industry segment, accounting for approximately 27.8% share in 2025. The segment's leadership is driven by increasing demand for lightweight vehicle components, improved fuel efficiency, electric vehicle production, and increasingly stringent emission-reduction requirements. Composite materials enable manufacturers to reduce component weight while maintaining structural performance, supporting their integration into vehicle bodies, structural components, and other systems. Continued vehicle electrification and lightweighting initiatives are expected to sustain demand.

Wind Energy is projected to register the highest CAGR of 5.4% during 2026–2036,

supported by expanding global renewable energy capacity, increasing installation of larger wind turbines, and rising demand for lightweight and durable composite materials. Larger turbine blades require materials capable of delivering high strength, fatigue resistance, and long-term durability while minimizing structural weight. Continued investment in renewable energy infrastructure and next-generation turbine designs is expected to accelerate composite adoption in the wind energy sector.

Regional Market Assessment

Manufacturing Expansion and Renewable Energy Sustain Asia Pacific Leadership

Asia Pacific is projected to dominate the global composites market, accounting for approximately 41.2% share in 2025. The region's leadership is supported by strong manufacturing capabilities, expanding automotive production, increasing wind energy installations, rapid infrastructure development, and growing aerospace investment. China, India, Japan, South Korea, and Southeast Asian countries continue to expand composite manufacturing capacity, strengthening demand across transportation, construction, renewable energy, and industrial applications. Continued industrialization and investment in advanced manufacturing are expected to sustain regional market leadership.

Aerospace and Advanced Lightweight Materials Accelerate North American Growth

North America is projected to register the highest CAGR of 4.9% during the forecast period, driven by increasing investment in aerospace and defense, electric vehicles, renewable energy infrastructure, advanced manufacturing, and next-generation lightweight materials. The United States and Canada are witnessing greater adoption of high-performance carbon fiber composites, supported by technological innovation, manufacturing automation, and demand for weight-efficient components. Continued investment in electrification and advanced industrial technologies is expected to create additional opportunities for composite materials.

Electrification and Wind Energy Support European Composite Demand

Europe represents a significant composites market, supported by stringent emission standards, expanding electric vehicle production, increasing wind energy capacity, and a strong aerospace manufacturing base. Germany, France, the United Kingdom, Spain, and Italy are investing in sustainable composite materials, recyclable thermoplastic

systems, and advanced manufacturing technologies. The growing emphasis on vehicle lightweighting, circular material solutions, and renewable energy infrastructure is expected to sustain regional demand for advanced composites.

Infrastructure and Renewable Energy Investments Create LAMEA Opportunities

LAMEA is emerging as a promising composites market, supported by expanding infrastructure development, oil and gas activities, renewable energy investment, and growth in marine and transportation industries. Countries across Latin America, the Middle East, and Africa are increasingly adopting composite materials for corrosion-resistant infrastructure, wind energy projects, industrial equipment, and transportation applications. Their durability, lightweight characteristics, and resistance to harsh environments make composites particularly attractive for demanding regional conditions. Continued infrastructure modernization and energy investment are expected to support long-term market growth.

Recent Developments

May 2025: Hexcel Corporation expanded its portfolio of advanced carbon fiber composite materials designed for aerospace, defense, and next-generation mobility applications, supporting lightweight structural solutions and improved fuel efficiency.

April 2025: SGL Group strengthened its carbon fiber production capabilities through investments in advanced manufacturing technologies aimed at meeting rising demand from electric vehicles, renewable energy, and industrial sectors.

October 2024: China Jushi Co., Ltd. expanded glass fiber manufacturing capacity to support growing demand from wind energy, automotive, infrastructure, and construction industries across global markets.

August 2024: Solvay S.A. (formerly Cytec Industries) advanced the development of high-performance thermoplastic composite materials focused on aerospace, automotive, and industrial applications requiring lightweight, recyclable, and durable solutions.

Critical Business Questions Addressed

How will the Global Composites Market evolve through 2036?

The report evaluates long-term market growth driven by lightweight material adoption, renewable energy expansion, electric vehicle production, aerospace innovation, and sustainable composite technologies.

Which fiber type, process, resin type, and end-use segments will generate the greatest commercial opportunities?

The study identifies the dominant and fastest-growing market segments, enabling composite manufacturers, raw material suppliers, OEMs, industrial producers, and investors to prioritize strategic investments.

What are the primary factors driving market expansion?

The report analyzes the influence of lightweighting, renewable energy growth, advanced manufacturing technologies, infrastructure development, electric mobility, and sustainability initiatives on future market development.

Which regional markets present the strongest long-term investment potential?

The assessment compares manufacturing capacity, renewable energy deployment, automotive production, aerospace investments, infrastructure development, and industrial growth across major regions to identify the most attractive growth opportunities.

How can composite manufacturers strengthen their competitive position in the evolving industry?

The report examines strategic priorities including advanced fiber technologies, automated manufacturing, recyclable composite development, capacity expansion, digital engineering, and strategic partnerships to support long-term competitive advantage.

Beyond the Forecast

The composites market will continue to evolve through advancements in high-performance carbon fibers, recyclable thermoplastic composites, automated fiber placement (AFP), additive manufacturing, bio-based resin systems, AI-

enabled production optimization, and digital composite engineering, enabling higher performance, improved sustainability, and cost-efficient manufacturing.

Rising investments in electric vehicles, aerospace, renewable energy, smart infrastructure, marine engineering, industrial automation, and sustainable transportation will continue creating substantial opportunities for composite manufacturers, resin suppliers, fiber producers, OEMs, and industrial technology providers worldwide.

As industries increasingly prioritize lightweight materials, carbon reduction, fuel efficiency, structural durability, and circular economy objectives, companies investing in advanced composite technologies, sustainable manufacturing processes, recyclable material solutions, and next-generation engineering capabilities will be well positioned to capitalize on long-term growth opportunities in the global composites market through 2036.

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