

Composite Material Market Size & Share Analysis - Growth Trends and Forecast (2026 - 2031)

> ****Industry:**** Advanced Materials & Composites (Chemicals & Materials)
> ****Source:**** https://www.mordorintelligence.com/industry-reports/composite-material-market(https://www.mordorintelligence.com/industry-reports/composite-material-market)
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Executive Market Summary

Market Metric	Details
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Base Market Size	USD 70.94 billion
Projected Forecast (2031)	USD 70.94 billion
Growth Rate (CAGR)	4.86 %
Largest Market Region	N/A
Fastest-Growing Region	N/A

Market Visualizations & Infographics

![Major players in Composite Material industry](images/chart_2.png)

![Composite Material Market Size](images/chart_3.png)

![Composite Material Market Share by Matrix Material, 2025](images/chart_4.png)

![Composite Material Market Share by End-use Industry, 2025](images/chart_5.png)

![Composite Material Market Growth Rate by Region](images/chart_6.png)

![Composite Material Market Concentration](images/chart_7.png)

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Comprehensive Research Analysis

Overview Points List Flex 49 Share Feature End

Market OverviewStudy Period | 2020 - 2031 |
Market Size (2026) | USD 70.94 Billion |
Market Size (2031) | USD 89.93 Billion |
Growth Rate (2026 - 2031) | 4.86 % |
Fastest Growing Market | Asia Pacific |
Largest Market | Asia Pacific |
Market Concentration | Low |
Major Players*Disclaimer: Major Players sorted in no particular order

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Market Overview

Composite Material Market Analysis by Mordor Intelligence
The Composite Material market size is expected to grow from USD 67.65 billion in 2025 to USD 70.94 billion in 2026 and is forecast to reach USD 89.93 billion by 2031 at 4.86% CAGR over 2026-2031. Robust demand for lightweight, high-performance materials in transportation, energy, infrastructure and electronics is widening the application portfolio, while continuous process automation is lowering cycle times and defects. Asia-Pacific, holding 45.12% of global revenue in 2024, remains the epicenter of volume growth as wind-turbine expansion, electrification programs and large-scale infrastructure projects accelerate regional consumption. Rapid progress in ceramic matrix technologies, steady substitution of metals by polymer matrix grades and an improving supply base for specialty reinforcements are strengthening competitive barriers for late entrants. Recycling limitations, however, continue to cloud long-term circularity targets and could restrain adoption if end-of-life solutions do not keep pace with installation rates.

Key Report Takeaways* By matrix material, polymer matrix composites commanded 55.62% of the composites market share in 2025, while ceramic matrix composites are poised to climb at an 8.84% CAGR through 2031.
* By reinforcement fiber, glass fiber held 54.63% revenue share in 2025; alternative fibers are forecast to expand at a 6.83% CAGR to 2031.
* By end-use industry, aerospace and defense accounted for 34.72% of the composites market size in 2025, whereas wind energy is surging at a 8.6% CAGR over the same horizon.
* By geography, Asia-Pacific led with 44.85% of global sales in 2025 and is tracking a 7.45% CAGR to 2031.

Key Market Trends

Market Trends and Insights
Drivers Impact Analysis of Composite Material Market*
Driver | (~) % Impact on CAGR Forecast | Geographic Relevance | Impact Timeline |
Electrification-driven carbon-fiber demand in e-mobility | +1.5% | Asia-Pacific, North America, Europe | Medium term (2-4 years) |
Increasing usage in the manufacturing of wind turbine blades | +1.8% | Europe, Asia-Pacific, North America | Long term (≥ 4 years) |
Growing adoption of thermoplastic composites in mass-production automotive | +1.4% | North America, Europe, Asia-Pacific | Medium term (2-4 years) |
Increasing use of composites in the aerospace and defense industry | +1.6% | North America, Europe, Asia-Pacific | Long term (≥ 4 years) |
Technological Advancement in the Field of Material Science | +1.2% | Global | Long term (≥ 4 years) |
Source: Mordor Intelligence |

Competitive Landscape

Competitive Landscape

The composites market is fragmented, with global leaders integrating fiber production, fabric manufacturing, and part fabrication to streamline raw material access and certification timelines. Mergers and acquisitions, such as Owens Corning's USD 755 million divestiture of its glass-reinforcements business to Praana Group, drive scale and portfolio realignment. SGL Carbon's 2025 restructuring of its Carbon Fibers unit highlights wind sector demand volatility and high capital requirements. Technology investments in automation, resin infusion, and rapid-cycle materials, like Toray's acquisition of Gordon Plastics' assets, enhance competitiveness. Companies like Syensqo focus on thermoplastic innovations to capture OEM value. Sustainability is a key growth area, with start-ups like Pond Biomaterials and Composite Recycling advancing bio-based resins and fiber recovery. Collaborations on self-healing and multifunctional laminates, alongside intellect

ual property in nano-fillers and graphene coatings, are expected to strengthen pricing power and raise entry barriers despite rising demand.

Composite Material Industry Leaders* Owens Corning

- * Hexcel Corporation

- * Mitsubishi Chemical Group Corporation.

- * Syensqo

- * Toray Industries, Inc.

- * *Disclaimer: Major Players sorted in no particular order

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Scope Methodology P Space

This market is defined as the revenue generated from composite materials that combine a matrix (polymer, metal, or ceramic) with a reinforcement (such as fibers), supplied into major industrial uses worldwide and measured in value terms.

Scope exclusions: We exclude metal alloys and monolithic plastics that do not use a composite structure, along with lab-scale materials that are not yet commercialized.

Segmentation Container

- * By Matrix Material* Polymer Matrix Composites (PMC)* Thermoset Resins
- * Thermoplastic Resins

- * Ceramic/Carbon Matrix Composites (CMCs)
- * Other Matrices (Metal Matrix Composites)

- * By Reinforcement Fiber* Glass Fiber
- * Carbon Fiber
- * Aramid Fiber
- * Other Fibers (Natural/Bio Fiber)

- * By End-use Industry* Automotive and Transportation
- * Wind Energy
- * Aerospace and Defense
- * Pipes and Tanks
- * Construction
- * Electrical and Electronics
- * Sports and Recreation
- * Other End user Industries (Healthcare, Marine, etc.)

- * By Geography* Asia-Pacific* China
- * India
- * Japan
- * South Korea
- * Thailand
- * Malaysia
- * Indonesia
- * Vietnam
- * Rest of Asia-Pacific

- * North America* United States
- * Canada
- * Mexico

- * Europe* Germany
- * United Kingdom
- * France
- * Italy
- * Spain
- * Russia
- * NORDIC Countries
- * Turkey
- * Rest of Europe

- * South America* Brazil
- * Argentina
- * Colombia
- * Rest of South America

- * Middle East and Africa* Saudi Arabia
- * South Africa
- * Nigeria
- * Qatar
- * Egypt
- * United Arab Emirates
- * Rest of Middle-East and Africa

Frequently Asked Questions

What is the current size of the composites market?

The composites market is valued at USD 70.94 billion in 2026 and is projected to reach USD 89.93 billion by 2031.

Which region holds the largest share of composites consumption?

Asia-Pacific leads with 44.85% of global revenue and is also the fastest-growing region at a 7.45% CAGR through 2031.

Why are ceramic matrix composites (CMCs) attracting attention?

CMCs can operate above 1 600 °C, enabling lighter, more efficient jet-engine and energy-system components and are forecast to expand at an 8.84% CAGR.

What is the main obstacle to broader composites adoption?

High material cost and limited large-scale recycling options remain the primary challenges constraining wider penetration into cost-sensitive sectors.

Which manufacturing processes are becoming mainstream in automotive composites?

Rapid-cycle thermoplastic techniques such as automated tape laying, compression molding and injection over-molding are now aligning with mass-production takt times.