

# **3D Woven Composites Market Size, Share & Trends Analysis Report By Fiber Type (Carbon Fiber, Glass Fiber, Aramid Fiber, Hybrid Fibers), By Resin Type, By Manufacturing Process, By End-use, By Region, And Segment Forecasts, 2026 - 2033**

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## **Abstracts**

The global 3D woven composites market size was valued at USD 170.0 million in 2025 and is projected to grow from USD 190.6 million in 2026 to USD 442.3 million by 2033, at a CAGR of 12.8% from 2026 to 2033. Asia Pacific dominated the market, accounting for the largest revenue share of 34.0% in 2025. The market is experiencing growing demand as industries seek lightweight materials with high strength, stiffness, impact resistance, and enhanced structural integrity.

Unlike conventional 2D laminated composites, 3D woven structures incorporate reinforcement in multiple directions, providing enhanced through-thickness properties and reducing susceptibility to delamination. These characteristics make the technology particularly suitable for highly loaded structural components.

The aerospace and defense sectors are major contributors to market development, as manufacturers require lightweight structural materials that withstand high mechanical loads, impacts, fatigue, and demanding operating conditions. 3D woven composites can be incorporated into structural components, engine-related applications, aircraft interiors, protective structures, and other high-performance components. Automotive manufacturers are also evaluating these materials for lightweight structural applications, particularly in performance-oriented and electric vehicles. Wind energy manufacturers are exploring advanced reinforcement architectures to improve the durability and structural efficiency of large components.

Technological development is focused on improving weaving precision, production speed, fiber architecture, resin compatibility, and overall manufacturing efficiency. Advanced 3D weaving machines can create complex textile preforms with controlled fiber orientation and improved structural performance. Automated performing and resin-transfer processes are helping reduce manual intervention and improve production consistency. Hybridization of carbon, glass, aramid, and other high-performance fibers is enabling manufacturers to develop application-specific reinforcement systems.

## Global 3D Woven Composites Market Report Segmentation

This report forecasts revenue growth at the regional & country levels and provides an analysis of the industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the global 3D woven composites market report based on the fiber type, resin type, manufacturing process, end use, and region:

### Fiber Type Outlook (Revenue, USD Million, 2021 - 2033)

Carbon Fiber

Glass Fiber

Aramid Fiber

Hybrid Fibers

Other Fibers

### Resin Type Outlook (Revenue, USD Million, 2021 - 2033)

Epoxy

Polyester & Vinyl Ester

Thermoplastics

Phenolic

Others

Manufacturing Process Outlook (Revenue, USD Million, 2021 - 2033)

3D Weaving

Resin Transfer Molding (RTM)

Vacuum Infusion

Others

End Use Outlook (Revenue, USD Million, 2021 - 2033)

Aerospace & Defense

Automotive & Transportation

Wind Energy

Industrial

Construction & Infrastructure

Other End-use Industries

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Italy

Spain

Asia Pacific

China

Japan

India

South Korea

Central and South America

Brazil

Middle East and Africa

Saudi Arabia

**This report can be delivered to the clients within 3 Business Days**

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