

Global Non-Woven Glass Fiber Prepreg Market Size Study & Forecast, by Application, Resin Type, Fiber Type, Fiber Orientation and Regional Forecasts 2025–2035

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Abstracts

The Global Non-Woven Glass Fiber Prepreg Market is valued at approximately USD 4.25 billion in 2024 and is anticipated to grow at a robust compound annual growth rate (CAGR) of over 7.20% during the forecast period 2025–2035. Engineered for high-strength, lightweight performance, non-woven glass fiber prepregs have emerged as indispensable composites across industries navigating the transition towards sustainability, durability, and energy efficiency. These materials, which combine glass fibers with advanced resins, are pre-impregnated and pre-cured to offer structural uniformity, reduced processing time, and exceptional resistance to heat, fatigue, and corrosion. As sectors like aerospace, automotive, construction, and wind energy aggressively pursue lighter and stronger materials, non-woven glass fiber prepregs are gaining critical traction due to their superior mechanical properties and eco-aligned manufacturing processes.

The market growth is notably fueled by surging investments in renewable energy infrastructure—particularly wind turbine installations—where non-woven glass fiber prepregs are extensively used in blade manufacturing to ensure aerodynamic stability and long service life. Meanwhile, the automotive sector, driven by global emission-reduction mandates and the electric vehicle (EV) revolution, is actively integrating these composites to reduce vehicle weight and boost energy efficiency. Additionally, the medical and aerospace industries are exploring the integration of prepreg composites for surgical tools, orthopedic devices, and lightweight aircraft interiors due to their dimensional accuracy, chemical inertness, and ease of sterilization. Innovations in resin chemistries, such as the rise of bio-based and low-VOC variants, are further shaping

next-generation prepreg formulations that align with regulatory and environmental expectations.

Geographically, North America stands as a significant stronghold in the global non-woven glass fiber prepreg ecosystem, bolstered by a well-established aerospace and defense sector, alongside consistent innovation in lightweight automotive design. Europe follows closely, with countries like Germany and France emphasizing renewable energy adoption and sustainable construction materials. Asia Pacific, however, is expected to dominate the growth trajectory over the forecast timeline, spearheaded by China's expanding wind energy capacity, India's infrastructure boom, and Japan's advancements in electric mobility. These developments are pushing the region's demand for non-woven glass fiber prepreps at an accelerated pace. Moreover, favorable government incentives, increasing foreign direct investments, and the expansion of domestic manufacturing capabilities are aligning to unlock exponential market potential in this region.

Major market player included in this report are:

BASF SE

Owens Corning

Saint-Gobain Performance Plastics

Johns Manville

Gurit Holding AG

Hexcel Corporation

Toray Industries Inc.

Mitsubishi Chemical Group

SGL Carbon SE

Park Aerospace Corp.

Axiom Materials Inc.

Teijin Limited

Porcher Industries

Solvay S.A.

TPI Composites, Inc.

Global Non-Woven Glass Fiber Prepreg Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025–2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players.

The detailed segments and sub-segments of the market are explained below:

By Application:

Wind Turbine Blades

Automotive Components

Marine Applications

Construction Materials

Aerospace Composites

Medical Devices

By Resin Type:

Epoxy Resins

Phenolic Resins

Polyester Resins

Vinylester Resins

By Fiber Type:

E-Glass Fibers

S-Glass Fibers

C-Glass Fibers

Quartz Fibers

By Fiber Orientation:

Unidirectional

Cross-Plied

Biaxial

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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