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Prepreg Market Anticipated to Surge to $21.63 Billion by 2032 with a 10.5% CAGR | Report by SNS Insider

Prepreg Market Booms as Aerospace and Automotive Sectors Drive Demand for Lightweight, High-Performance Materials

AUSTIN, TX, UNITED STATES, February 6, 2025 /EINPresswire.com/ -- The global Prepreg Market, valued at USD 8.81 billion in 2023, is projected to reach USD 21.63 billion by 2032, expanding at a compound annual growth rate (CAGR) of 10.5% during the forecast period from 2024 to 2032. The market's growth is primarily driven by the increasing demand for lightweight, high-performance materials in industries such as aerospace, automotive, and wind energy, alongside advancements in resin technologies that enhance the efficiency and versatility of prepregs.

PREPREG MARKET

MARKET STASTISTICS

MARKET SIZE 2023	CAGR 2024–2032	MARKET SIZE 2032
$ 8.81 BN	10.5%	$ 21.63 BN

SEGMENT ANALYSIS
> By Fiber Type
Carbon fiber prepreg dominates the prepreg market, with this dominant share of over 85% in 2023

REGIONAL ANALYSIS
North America is dominating reign in the prepreg market, capturing over 40.3% share in 2023

KEY PLAYERS
AXIOM MATERIALS   SOLVAY   'TORAY' Innovation by Chemistry   HEXCEL

SNS INSIDER Strategy & Stats   source: www.snsinsider.com

Prepreg Market

Innovation advancements and regulatory support propel market expansion.

Operational developments in prepreg manufacturing technologies are making an essential contribution to improving prepregs, including their resin systems and reinforcement fibers, through optimized attributes such as strength, flexibility, and temperature resistance. Such technological advancements are likely to further drive the penetration of prepregs at high-performance applications, especially, aerospace and automotive sector. As an example, prepregs have been approved for use in many aerospace applications by the U.S. Federal Aviation Administration (FAA) and the European Union Aviation Safety Agency (EASA) because of fuel efficiency and emission improvements achievements.

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Key Players:

- Axiom Materials (United States)
- Solvay Group (Belgium)
- Toray Industries, Inc. (Japan)
- Hexcel Corporation (United States)
- Teijin Limited (Japan)
- Holdings Corporation (Japan)
- SGL Group (Germany)
- Gurit Holding AG (Switzerland)
- Park Aerospace Corp (United States)
- Plastic Reinforcement Fabrics Ltd. (United Kingdom)
- Mitsubishi Chemical Group Corporation

Market Segmentation and Sub-Segmentation Included are:

By Fiber Type, Carbon Fiber dominated the market and held 85% share in 2023.

It is due to their lightweight nature and excellent mechanical properties. Carbon fiber prepregs are used extensively in industries requiring high strength-to-weight ratios, such as aerospace, automotive, and sports equipment. The demand for carbon fiber prepregs is expected to remain strong, driven by the continuous innovation in carbon fiber technology and the increasing application of these materials in electric vehicles and renewable energy sectors.

By Resin Type Thermoset Prepreg held the largest market share around 75% of the Market in 2023

These are liquids at room temperature they are very good for impregnation of the reinforcing fibers. After curing, a very strong three-dimensional grid of polymer is created which increases the strength of the fibers much more than thermoplastic types. Then there are the added benefits of thermoset resins: resistance to extreme chemicals and solvents, high-temperature resistance, adhesive qualities, impressive strength, and elasticity.

By Application, Aerospace & Defense held the largest market share in 2023 of around 45%

Prepregs are extensively used in the production of lightweight, high-strength components for aircraft structures, including wings, fuselage, and tail sections. The growing demand for fuel-efficient aircraft, coupled with rising air travel, has significantly boosted the need for advanced materials like prepregs that offer superior performance in challenging environments.

North America held the largest market share of around 40.3% in 2023

The region's dominance is attributed to the robust demand for prepregs in the aerospace and automotive sectors, with key manufacturers like Boeing, Lockheed Martin, and General Electric heavily investing in advanced composite technologies. Additionally, the increasing focus on

sustainable manufacturing processes and stringent environmental regulations in North America further support the growth of the prepreg market.

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