

# Tow Prepreg Market Soars Towards USD 11.79 Bn by 2030 Driven by Rising Demand for Lightweight, High-Strength Composites

*"Fiber Reinforcement Redefined: Unlocking the Potential of Tow Prepreg Market for Lightweight, High-Performance Composite Materials in Various Industries."*

TEXES, AUSTIN, UNITED STATES, April 8, 2024 /EINPresswire.com/ -- The [tow prepreg market](#) is on a trajectory for significant growth, projected to reach a staggering USD 11.79 billion by 2030.

This remarkable expansion is primarily driven by the ever-increasing demand for lightweight, high-strength composite materials across various industries. Tow prepreps, known for their exceptional strength-to-weight ratio, corrosion resistance, and durability, are becoming the material of choice for applications where performance is paramount.

The tow prepreg market is experiencing notable growth owing to its widespread adoption in advanced composite manufacturing processes across industries such as aerospace, automotive, wind energy, and sporting goods. Tow prepreg, short for "tow pre-impregnated," refers to continuous strands of fibers, such as carbon, glass, or aramid, impregnated with resin and wound onto spools. These pre-impregnated fibers offer several advantages, including consistent resin content, precise fiber alignment, and ease of handling, making them ideal for high-performance composite applications. One of the key trends shaping the tow prepreg market is the increasing demand for lightweight and high-strength materials in aerospace and automotive industries. Tow prepreps are widely used in the production of structural components for aircraft, spacecraft, and automobiles, offering exceptional strength-to-weight ratio, fatigue resistance, and stiffness properties. As manufacturers seek to improve fuel efficiency, reduce emissions, and enhance performance, the adoption of tow prepreps for lightweight structural components, such as fuselages, wings, chassis, and body panels, is expected to grow significantly.

Moreover, technological advancements and innovations in tow prepreg manufacturing processes are driving market growth and product development. Manufacturers are investing in advanced



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weaving, spreading, and impregnation technologies to enhance process efficiency, product quality, and customization capabilities. Additionally, the development of hybrid and multi-material prepregs, combining different fibers and resin systems, offers tailored solutions for specific application requirements, enabling the production of composites with enhanced properties such as impact resistance, thermal stability, and electrical conductivity.

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Some of the Key Players Included are:

- TCR Composites, Inc.
- SGL Carbon SE
- HEXCEL Corporation
- VITECH COMPOSITES.
- ARISAWA Mfg. Co., Ltd.
- Mitsubishi Chemical Holdings Corporation
- JXTG Holdings, Inc.
- Red Composites Ltd.
- Teijin Limited
- Porcher Industries
- other players

Market Size:

According to the SNS Insider report, the tow prepreg market size stood at USD 314.71 million in 2022. Over the forecast period of 2023-2030, the market is expected to register a compelling CAGR of 12.2%, reflecting the widespread adoption of tow prepregs in diverse sectors.

Market Scope:

The tow prepreg market represents a critical segment within the chemicals and materials industry. It revolves around the production and utilization of advanced composite materials. Tow prepreg, a unique composite material, comprises continuous fibres pre-impregnated with resin. This pre-impregnated state offers significant advantages during the manufacturing process, reducing production time and complexity. Furthermore, tow prepregs boast exceptional mechanical properties, including a high strength-to-weight ratio, superior corrosion resistance, and outstanding durability. These attributes position tow prepreg as an indispensable material across a wide range of industries, most notably aerospace, automotive, wind energy, sports and leisure, and marine applications.

Market Analysis:

The oil & gas industry presents a unique growth opportunity for the tow prepreg market. The rising consumption of oil and gas necessitates the use of pressure vessels capable of withstanding immense pressure. As per data from the Organization of the Petroleum Exporting Countries (OPEC), member countries hold a staggering 1,189.8 million barrels of crude oil

reserves. To ensure safe and efficient storage and transportation, these countries are increasingly adopting tow prepregs for pressure vessel construction. Pressure vessels made with tow prepregs offer several advantages over traditional metal vessels, including the ability to withstand higher pressures and boasting superior weight characteristics. This growing demand for tow prepregs in pressure vessel production is expected to significantly propel market growth in the coming years.

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#### Segment Analysis:

The global tow prepreg market is segmented by fibre type, primarily consisting of carbon, glass, and other fibres. Carbon fibre tow prepregs are in high demand across various end-use industries, including automotive & transportation, aerospace & defense, and sports & recreation. This dominance stems from carbon fibre's exceptional strength-to-weight ratio, surpassing that of other fibre types. Additionally, carbon fibre tow prepregs boast superior tensile strength and elastic modulus, making them ideal for applications demanding high performance. Leading companies like ENEOS Corporation are capitalizing on this trend by manufacturing and supplying carbon fibre composite materials tailored to specific customer needs.

#### By Resin Type:

- Epoxy Resin
- Phenolic Resin
- Others

#### By Fiber Type:

- Carbon Fiber
- Glass Fiber
- Others

#### By Application:

- Pressure Vessels
- Scuba Tanks
- Oxygen Cylinders
- Others

#### By End-Use Industry:

- Aerospace & Defense
- Automotive & Transportation
- Sports & Recreational
- Oil & Gas
- Others

### Impact of Russia-Ukraine War:

The ongoing war between Russia and Ukraine has cast a shadow over the global economy, and the tow prepreg market is not immune to its impact. The disruption of supply chains, particularly for raw materials sourced from the region, has led to price fluctuations and potential shortages. Furthermore, the war has triggered a rise in energy prices, impacting production costs for tow prepreg manufacturers. The full extent of the war's impact on the market remains uncertain, and ongoing developments necessitate close monitoring.

### Impact of Economic Slowdown:

A potential economic slowdown could pose a challenge to the growth trajectory of the tow prepreg market. Reduced consumer spending and declining investments could lead to lower demand for products that utilize tow prepreps. For instance, a slowdown in the automotive industry could dampen the demand for tow prepreps used in lightweight vehicle components. However, the long-term growth prospects of the market remain promising, driven by the inherent advantages of tow prepreps and their expanding applications across various industries.

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### Regional Analysis:

The tow prepreg market in Europe is anticipated to be one of the largest globally. This dominance can be attributed to the presence of major manufacturers like BMW, BAE Systems, and Airbus. These companies are driving demand for tow prepreps in the production of cars and airplanes. Furthermore, the flourishing aerospace, wind energy, automotive, and military industries in countries like France and Germany are contributing significantly to the regional market growth. Germany, boasting the largest car market in Europe, is experiencing a strong push towards lightweighting.

### Recent Developments:

June 2021 Axiom Materials U.S. announces the launch of its latest narrow tow prepreps for carbon fibre composite materials. In applications such as high-pressure vessels, essential battery containment and structural components for next generation transport, narrow tow prepreps have been specifically designed to improve safety, boost strength, reduce waste and cope with high temperatures.

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