

Global Thermoplastic Composites Market Size Study, by Resin (Polyamide, Polypropylene, Polyetheretherketone, Others), by Fiber (Glass Fiber, Carbon Fiber, Others), and Regional Forecasts 2022-2032

<https://marketpublishers.com/r/GE7F608C0BF7EN.html>

Date: October 2024

Pages: 285

Price: US\$ 3,218.00 (Single User License)

ID: GE7F608C0BF7EN

Abstracts

Global Thermoplastic Composites Market valued at approximately USD 31.67 billion in 2023, is projected to grow at a robust CAGR of 8.2% over the forecast period of 2024 to 2032. Thermoplastic composites, which combine thermoplastic polymers with reinforcing fibers such as carbon fiber, glass fiber, and aramid fibers, offer superior strength, stiffness, and flexibility. When subjected to heat, thermoplastics become soft and moldable, making them ideal for various industrial applications. By introducing additional additives like fillers and flame retardants, thermoplastic composites can further enhance performance, ensuring higher strength-to-weight ratios and resistance to environmental factors.

The increasing demand for thermoplastic composites across industries such as automotive, aerospace, construction, and consumer goods are driving market growth. In the automotive sector, for example, manufacturers are shifting towards lightweight composite materials to comply with stringent emissions regulations, such as the European Union's 95 grams per kilometer carbon emissions limit. The aerospace sector, likewise, leverages thermoplastic composites to reduce the overall weight of aircraft, enhancing fuel efficiency and lowering maintenance costs. The use of thermoplastic composites in these sectors is expected to grow rapidly, supported by their resilience to extreme temperatures and ability to withstand high pressures.

The market is also benefiting from advancements in production technologies such as automated fiber placement (AFP) and innovations in composite manufacturing.

Companies such as Hexcel Corporation, Toray, Teijin Limited, and SGL Group have been investing in proprietary composite technologies, leading to increased production efficiency and reduced costs. Moreover, collaborations between research centers, academic institutions, and industry players are contributing to the development of new applications and solutions for thermoplastic composites.

However, challenges such as the high cost of production, limited processing capabilities, and complexity of recycling thermoplastic composites are potential barriers to market expansion. Despite these hurdles, the demand for sustainable, lightweight, and high-performance materials continues to fuel the growth of the global thermoplastic composites market.

The key regions considered for the Global Thermoplastic Composites Market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. North America is a dominating region in the Global Thermoplastic Composites Market in terms of revenue. The market growth in the region is being attributed to factors including high investments in research and development of recyclable and sustainable composite materials. The region's automotive, aerospace, and defense sectors, along with the renewable energy industry, have been significant consumers of thermoplastic composites. Whereas, the market in Asia Pacific is anticipated to grow at the fastest rate over the forecast period fueled by rising demand for electric vehicles (EVs) in China, for instance, is projected to further boost the demand for thermoplastic composites in the region.

Major Market Players Included in This Report Are:

Toray Industries Inc.

Owens Corning

SGL Carbon

Mitsubishi Chemical Holdings Corporation

BASF SE

Solvay S.A.

Hexcel Corporation

Teijin Limited

Huntsman Corporation

Koninklijke Ten Cate bv

Cytec Solvay Group

Gurit Holding AG

Plasan Carbon Composites Inc.

Cristex Composite Materials

TPI Composites Inc.

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

By Resin:

Polyamide (PA)

Polypropylene (PP)

Polyetheretherketone (PEEK)

Others

By Fiber:

Glass Fiber

Carbon Fiber

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

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 approaches.

Analysis of competitive structure of the market.

Demand-side and supply-side analysis of the market.

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