

Advanced Polymer Composites Market By Type (Resins, Fiber, Others) , By End-Use Industry (Automotive, Construction, Electrical and Electronics, Aerospace and Defense, Marine, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033

<https://marketpublishers.com/r/AB20AA66A646EN.html>

Date: July 2024

Pages: 300

Price: US\$ 2,655.00 (Single User License)

ID: AB20AA66A646EN

Abstracts

Advanced Polymer Composites Market

The advanced polymer composites market was valued at \$11.7 billion in 2023 and is projected to reach \$24.2 billion by 2033, growing at a CAGR of 7.6% from 2024 to 2033.

Advanced polymer composites are materials formed by combining polymers with reinforcement fibers. The materials synthesized through this combination exhibit remarkable thermal, mechanical, and chemical properties. The key properties of these composites are high strength-to-weight ratio, thermal stability, chemical & corrosion resistance, impact resistance, stiffness, and rigidity. Advanced polymer composites find applications in diverse industries, including automotive, defense & military, automotive, construction, marine, and sports.

Advanced polymer composites observe a high demand due to their customizable properties, making them versatile for diverse applications. In addition, the rapidly expanding automotive industry is a significant driver of the advanced polymer composites market. The automotive industry is inclining toward the usage of lightweight materials, hence increasing the requirement of polymer composites. In recent years, the trend of utilizing additive manufacturing for the manufacturing of the composites is

acquiring traction. The manufacturing technique offers exceptional control over the composition and geometry of polymers, facilitating the development of intricate designs. Moreover, innovations in additive manufacturing techniques have led to the integration of functional fillers and nanoparticles during the manufacturing process, elevating the properties of the printed polymer composites.

However, shortage of recycling and disposal options for advanced polymer composites generates environmental concerns, thereby restraining the development of the market. Furthermore, utility of the composites in various industries is subject to several regulations and certifications, which hampers the growth of the advanced polymer composites market. For instance, the Joint Center of Excellence for Advanced Materials (JAMS) in the U.S. focuses on the safety and standardization of certifications regarding the applications of advanced polymer composites. The work of JAMS focuses on international standardization, development of agreements for the designed protocols, and promotion of common material databases globally. Compliance with such systematized regulations remains a challenging task for composites manufacturers and industry players.

Segment Review

The advanced polymer composites market is segmented by type, end-use industry, and region. On the basis of type, the market is divided into resins, fiber, and others. Depending on end-use industry, it is classified into automotive, construction, electrical & electronics, aerospace & defense, marine, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

On the basis of type, the resins segment held the highest market share in 2023.

Depending on end-use industry, the aerospace & defense segment acquired a high stake in the market in 2023.

Region wise, North America was the highest revenue generator in 2023.

Competition Analysis

The major players of the global advanced polymer composites market include BASF SE, Arkema, Mitsubishi Chemical Carbon Fiber and Composites, Inc., Toray Advanced

Composites, Covestro AG., Hexcel Corporation, SGL Carbon, Huntsman International LLC., TPI Composites Inc., and Solvay S.A. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships, to strengthen their foothold in the competitive market.

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Manufacturing Capacity

Capital Investment breakdown

Installed Base analysis

Product Benchmarking / Product specification and applications

Supply Chain Analysis & Vendor Margins

Upcoming/New Entrant by Regions

Average Consumer Expenditure

New Product Development/ Product Matrix of Key Players

Regulatory Guidelines

Strategic Recommendations

Surgical procedures data- specific or multiple surgery types

Additional company profiles with specific client's interest

Additional country or region analysis- market size and forecast

Average Selling Price Analysis / Price Point Analysis

Expanded list for Company Profiles

Key player details (including location, contact details, supplier/vendor network etc. in excel format)

Market share analysis of players at global/region/country level

Per Capita Consumption Trends

SWOT Analysis

Volume Market Size and Forecast

Key Market Segments

By Type

Resins

Epoxy Resins

Polyester Resins

Thermoplastic Resins

Polyester Resins

Others

Fiber

Carbon Fiber

Aramid Fiber

Glass Fiber

Others

Others

By End-Use Industry

Automotive

Construction

Electrical and Electronics

Aerospace and Defense

Marine

Others

By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

Rest of LAMEA

Key Market Players

BASF SE

Arkema

Mitsubishi Chemical Carbon Fiber and Composites, Inc.

Toray Advanced Composites

Covestr%li%AG.

Hexcel Corporation

SGL Carbon

Huntsman International LLC.

TPI Composites Inc.

Solvay S.A.

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