

Advanced Polymer Composites Market Report and Forecast 2025-2034

Market Report | 2025-07-14 | 168 pages | EMR Inc.

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Report description:

The global advanced polymer composites market size reached a value of approximately USD 20.01 Billion in 2024. The market is assessed to grow at a CAGR of 6.20% between 2025 and 2034, reaching a value of nearly USD 36.52 Billion by 2034.

Key Trends in the Market

Advanced polymer composites are innovative materials made by combining reinforcement materials with resins. Pultrusion, resin injection, resin transfer moulding (RTM), and filament winding are a few popular production processes. These composites are versatile and chemical-resistant, due to which they are widely used in diverse end-use sectors.

- The growing demand for lightweight and high-performance materials is one of the main factors driving the market for advanced polymer composites. Due to their distinctive qualities like a high strength-to-weight ratio, corrosion resistance, and durability, advanced polymer composites are highly valued in a variety of sectors. The market is anticipated to expand as companies are attempting to reduce costs, boost performance, and increase efficiency by utilising lightweight materials.

- The advanced polymer composites market demand is surging due to the increasing requirement to reduce the weight of components utilised in the automotive sector. Moreover, with the increasing focus on the development of lightweight electric vehicles, the market is anticipated to further grow in the forecast period.

- In order to lower maintenance costs and increase the lifespan of structures, the construction sector is increasingly adopting advanced polymer composites in infrastructure applications including bridges, tunnels, and highways.

Market Segmentation

The EMR's report titled "Global Advanced Polymer Composites Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

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Market Breakup by Product

- Resins
- Fibres
- Others

Market Breakup by Application

- Auto Parts
- Conductors
- Tanks and Pipes
- Aviation Parts
- Wind Blades
- Boat Building
- Others

Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Market Share by Application

With the flourishing aerospace sector, the advanced polymer composites market demand is surging to support the development of lightweight aviation parts. This is aided by rising attempts to reduce greenhouse gas emissions from aircraft by utilising lightweight materials.

Due to increasing launches of new vehicles, the auto part market is also anticipated to experience significant growth. During the forecast period, the market for advanced polymer composites is anticipated to grow amid the increasing preference for strong, lightweight, and conductive materials in the automotive sector.

Market Share by Region

Owing to the increasing demand for the product in the automotive, aerospace, and defence sectors in North America, the region represents a significant share in the global advanced polymer composites market. North America's automotive industry is well-established, with United States being one of the top vehicle producers. The high consumer disposable incomes, increasing manufacturing of automobiles, and the growing availability of a wide range of auto parts are positively impacting the demand for advanced polymer composites in the region.

Competitive Landscape

The comprehensive EMR report provides an in-depth assessment of the market based on Porter's five forces model along with giving a SWOT analysis. The report gives a detailed analysis of the following key players in the global advanced polymer

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composites market, covering their competitive landscape and the latest developments like mergers, acquisitions, investments and expansion plans.

BASF SE

BASF SE is a major player in the chemical industry, headquartered in Ludwigshafen, Germany, and established in 1865. BASF is one of the largest chemical producers in the world, with operations in over 80 countries and customers in almost every industry. BASF produces a wide range of chemicals, including plastics, coatings, solvents, and catalysts.

Arkema

Arkema is a French multinational company that specialises in the production and distribution of speciality chemicals and advanced materials. The company was created in 2004 as a spin-off from the French oil and gas company Total, and is headquartered in Colombes, a suburb of Paris, France. Arkema's products and services are divided into three main business segments including high performance materials, industrial chemicals, and coating solutions.

Owens Corning

Owens Corning is a multinational company engaged in developing and producing various building materials such as insulation, roofing, and fibreglass composites. The company is headquartered in Ohio, United States has been operating in the market since 1938. The company follows sustainability as a core value, and it makes significant investments in research and development for the creation of sustainable products. Through its durable, energy efficient, and sustainable solutions, the company aims to drive sustainability.

Other players in the advanced polymer composites market include 3B-the fiberglass Company, Solvay S.A., Cristex Ltd, SGL Carbon SE, Hexcel Corporation, DuPont de Nemours, Inc., and Toray TCAC Holding B.V., among others.

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