

Epoxy Composite Panels Market By End-use Industry (Automotive, Marine, Architectural, Building and Construction, Others): Global Opportunity Analysis and Industry Forecast, 2024-2033

Market Report | 2025-01-01 | 217 pages | Allied Market Research

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Report description:

The epoxy composite panels market was valued at \$325.0 million in 2023 and is estimated to reach \$524.9 million by 2033, exhibiting a CAGR of 5.0% from 2024 to 2033.□

Epoxy composite panels are advanced materials consisting of a matrix of epoxy resin reinforced with fibers such as glass, carbon, or aramid. These panels are valued for their high strength-to-weight ratio, superior corrosion resistance, and prolonged durability. The epoxy resin acts as a binder, providing structural integrity and ensuring load transfer between the reinforcing fibers, which contribute mechanical strength and stiffness. They are commonly used in aerospace, automotive, marine, and construction industries where lightweight yet robust materials are critical.□

The global epoxy composite panels market is witnessing robust growth majorly due to surge in demand for lightweight materials from industries such as aerospace, automotive, and marine to enhance fuel efficiency and reduce emissions. Epoxy composite panels, with their high strength-to-weight ratio, cater to these needs effectively. A 2021 study published in the International Journal of Automotive and Mechanical Engineering (IJAME) revealed that 10-30% of the vehicle weight can be reduced by using epoxy-based composites. Moreover, by reducing vehicle weight by 25%, 250 million barrels of fossil fuel can be saved. Furthermore, rapid urbanization and increase in infrastructure projects worldwide fuel the demand for composite panels in construction. This is attributed to their superior properties, such as corrosion resistance and high load-bearing capacity, which make them ideal for structural applications. Moreover, the shift toward electric vehicles is augmenting the demand for epoxy composite panels, as they are increasingly used in battery enclosures and structural components. According to the International Energy Agency, a Paris-based autonomous intergovernmental organization, over 3 million electric vehicles were sold in the first quarter of 2024, around 25% higher as compared to 2023. This number is estimated to reach 17 million by the end of 2024, exhibiting a 20% year-on-year increase. In addition, the development of bio-based epoxy resins and recyclable composites aligns with global sustainability goals, which significantly drives the growth of the global market. However, the availability of cheaper

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and more recyclable alternatives such as aluminum and advanced high-strength steel acts as the key deterrent factor of the market. Moreover, high cost associated with the production of epoxy composite panels, particularly those reinforced with carbon fibers, restrains the growth of the market. On the contrary, innovations like automated production methods and 3D printing have improved the efficiency and cost-effectiveness of epoxy composite panel manufacturing, making them more accessible to a broader range of industries. Such developments are expected to offer lucrative opportunities for the expansion of the global market during the forecast period.[]

The global epoxy composite panel market is segmented into end-use industry and region. On the basis of end-use industry, the market is categorized into automotive, marine, architectural, building & construction, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.[]

Key Findings[]

On the basis of end-use industry, the others segment was the largest revenue generator in 2023 and is anticipated to grow at a notable CAGR from 2024 to 2033.[]

Region wise, Asia-Pacific dominated the epoxy composite panel market in 2023.[]

Competitive Analysis[]

The major players operating in the epoxy composite panel market include Gurit Services AG, The Gill Corporation, Positive Composites, VDL Composites GmbH, TOPOLO New Materials, ATL Composites, Schweiter Technologies AG (3A Composites), CoreLite, Azo Composites, and Carbon-Core Corporation. These players have adopted acquisition, agreement, collaboration, joint venture, partnership, and product launch to strengthen their foothold in the competitive market.[]

Key Benefits for Stakeholders

This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the epoxy composite panels market analysis from 2023 to 2033 to identify the prevailing epoxy composite panels market opportunities.

The market research is offered along with information related to key drivers, restraints, and opportunities.

Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.

In-depth analysis of the epoxy composite panels market segmentation assists to determine the prevailing market opportunities.

Major countries in each region are mapped according to their revenue contribution to the global market.

Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.

The report includes the analysis of the regional as well as global epoxy composite panels market trends, key players, market segments, application areas, and market growth strategies.

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- Investment Opportunities
- Upcoming/New Entrant by Regions
- Technology Trend Analysis
- Consumer Preference and Product Specifications
- New Product Development/ Product Matrix of Key Players
- Patient/epidemiology data at country, region, global level
- Surgical procedures data- specific or multiple surgery types
- Additional company profiles with specific to client's interest
- Historic market data
- List of customers/consumers/raw material suppliers- value chain analysis
- Market share analysis of players at global/region/country level

Key Market Segments

By End-use Industry

- Automotive
- Marine
- Architectural
- Building and Construction
- Others

By Region

- North America
- U.S.
- Canada
- Mexico
- Europe
- Germany
- France
- 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
- VDL Composites GmbH
- The Gill Corporation
- TOPOLO New Materials
- Carbon-Core Corporation

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- Gurit Services AG
- ATL Composites
- AZO Composites, SL
- SCHWEITER TECHNOLOGIES AG (3A Composites)
- CoreLite
- Positive Composites

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