

Epoxy Composite Market Report by Fiber Type (Glass Fiber, Carbon Fiber, and Others), Manufacturing Process (Lay-up, Compression Moulding, Resin Injection, Resin Transfer Moulding, Filament Winding, Pultrusion), End User (Aerospace and Defense, Automotive, Electrical and Electronics, Wind Energy, Sporting Goods, Marine, Piping, and Others), and Region 2024-2032

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Abstracts

The global epoxy composite market size reached US\$ 34.3 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 54.9 Billion by 2032, exhibiting a growth rate (CAGR) of 5.3% during 2024-2032.

Epoxy composite is a type of material that employs epoxy resin for creating a polymer matrix, which is reinforced with fibers or other fillers to manufacture durable components with high strength-to-weight ratios. Some of the commonly used methods for producing epoxy composites include hand layup, compression, filament winding, and injection resin and resin molding processes. As compared to conventional construction materials, such as metal and concrete, epoxy composite is more lightweight, flexible, and cost-effective, and exhibits excellent adhesion and superior ultraviolet (UV) radiation, chemical, and heat resistance properties. This, in turn, protects the object from deterioration, due to which it is extensively used in various industrial applications. At present, epoxy composite is mainly available in glass and carbon fiber types.

Epoxy Composite Market Trends:

One of the key factors driving the epoxy composite market is the widespread product

adoption in load-bearing applications, including automotive, aerospace, oil and gas, and construction industries, due to their improved mechanical properties, high adhesiveness, heat and solvent resistance, and low costs. Additionally, epoxy composites exhibit various beneficial properties, such as being lightweight, exhibiting resistance to fatigue, and offering lack of shrinkage after cooling, due to which they are frequently combined with carbon and glass fiber to manufacture wind blades. As a result, there has been a fueling demand for epoxy composites in the wind energy industry for producing and coating components, which is acting as another growth-inducing factor. In line with this, significant technological advancements and the introduction of several effective and affordable production solutions for manufacturing epoxy composites in bulk are contributing to the market growth. Other factors, such as strategic collaborations amongst key players and ongoing investments in the research and development (R&D) activities for producing versatile epoxy resin that can be deployed as a key component to construct air and watercraft, are creating a positive outlook for the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global epoxy composite market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on fiber type, manufacturing process and end user.

Breakup by Fiber Type:

- Glass Fiber
- Carbon Fiber
- Others

Breakup by Manufacturing Process:

- Lay-up
- Compression Moulding
- Resin Injection
- Resin Transfer Moulding
- Filament Winding
- Pultrusion

Breakup by End User:

Aerospace and Defense
Automotive
Electrical and Electronics
Wind Energy
Sporting Goods
Marine
Piping
Others

Breakup by Region:

North America
United States
Canada
Asia-Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Arkema S.A, Avient Corporation, Axiom Materials Inc.,

Gurit, Hexcel Corporation, Huntsman Corporation LLC, Mitsubishi Chemical Holdings Corporation, SGL Carbon SE, Solvay S.A, Teijin Limited and Toray Industries Inc.

Key Questions Answered in This Report

1. What was the size of the global epoxy composite market in 2023?
2. What is the expected growth rate of the global epoxy composite market during 2024-2032?
3. What are the key factors driving the global epoxy composite market?
4. What has been the impact of COVID-19 on the global epoxy composite market?
5. What is the breakup of the global epoxy composite market based on the fiber type?
6. What is the breakup of the global epoxy composite market based on the end user?
7. What are the key regions in the global epoxy composite market?
8. Who are the key players/companies in the global epoxy composite market?

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