

Epoxy Composite Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global epoxy composite market size reached US\$ 32.3 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 46.4 Billion by 2028, exhibiting a growth rate (CAGR) of 6% during 2023-2028.

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 2023-2028. 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:

How has the global epoxy composite market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global epoxy composite market?

What are the key regional markets?

- What is the breakup of the market based on the fiber type?
- What is the breakup of the market based on the manufacturing process?
- What is the breakup of the market based on the end user?
- What are the various stages in the value chain of the industry?
- What are the key driving factors and challenges in the industry?
- What is the structure of the global epoxy composite market and who are the key players?
- What is the degree of competition in the industry?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL EPOXY COMPOSITE MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY FIBER TYPE

- 6.1 Glass Fiber
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Carbon Fiber
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 Others

- 6.3.1 Market Trends
- 6.3.2 Market Forecast

7 MARKET BREAKUP BY MANUFACTURING PROCESS

- 7.1 Lay-up
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 Compression Moulding
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 7.3 Resin Injection
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
- 7.4 Resin Transfer Moulding
 - 7.4.1 Market Trends
 - 7.4.2 Market Forecast
- 7.5 Filament Winding
 - 7.5.1 Market Trends
 - 7.5.2 Market Forecast
- 7.6 Pultrusion
 - 7.6.1 Market Trends
 - 7.6.2 Market Forecast

8 MARKET BREAKUP BY END USER

- 8.1 Aerospace and Defense
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 Automotive
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast
- 8.3 Electrical and Electronics
 - 8.3.1 Market Trends
 - 8.3.2 Market Forecast
- 8.4 Wind Energy
 - 8.4.1 Market Trends
 - 8.4.2 Market Forecast
- 8.5 Sporting Goods

- 8.5.1 Market Trends
- 8.5.2 Market Forecast
- 8.6 Marine
 - 8.6.1 Market Trends
 - 8.6.2 Market Forecast
- 8.7 Piping
 - 8.7.1 Market Trends
 - 8.7.2 Market Forecast
- 8.8 Others
 - 8.8.1 Market Trends
 - 8.8.2 Market Forecast

9 MARKET BREAKUP BY REGION

- 9.1 North America
 - 9.1.1 United States
 - 9.1.1.1 Market Trends
 - 9.1.1.2 Market Forecast
 - 9.1.2 Canada
 - 9.1.2.1 Market Trends
 - 9.1.2.2 Market Forecast
- 9.2 Asia-Pacific
 - 9.2.1 China
 - 9.2.1.1 Market Trends
 - 9.2.1.2 Market Forecast
 - 9.2.2 Japan
 - 9.2.2.1 Market Trends
 - 9.2.2.2 Market Forecast
 - 9.2.3 India
 - 9.2.3.1 Market Trends
 - 9.2.3.2 Market Forecast
 - 9.2.4 South Korea
 - 9.2.4.1 Market Trends
 - 9.2.4.2 Market Forecast
 - 9.2.5 Australia
 - 9.2.5.1 Market Trends
 - 9.2.5.2 Market Forecast
 - 9.2.6 Indonesia
 - 9.2.6.1 Market Trends

- 9.2.6.2 Market Forecast
- 9.2.7 Others
 - 9.2.7.1 Market Trends
 - 9.2.7.2 Market Forecast
- 9.3 Europe
 - 9.3.1 Germany
 - 9.3.1.1 Market Trends
 - 9.3.1.2 Market Forecast
 - 9.3.2 France
 - 9.3.2.1 Market Trends
 - 9.3.2.2 Market Forecast
 - 9.3.3 United Kingdom
 - 9.3.3.1 Market Trends
 - 9.3.3.2 Market Forecast
 - 9.3.4 Italy
 - 9.3.4.1 Market Trends
 - 9.3.4.2 Market Forecast
 - 9.3.5 Spain
 - 9.3.5.1 Market Trends
 - 9.3.5.2 Market Forecast
 - 9.3.6 Russia
 - 9.3.6.1 Market Trends
 - 9.3.6.2 Market Forecast
 - 9.3.7 Others
 - 9.3.7.1 Market Trends
 - 9.3.7.2 Market Forecast
- 9.4 Latin America
 - 9.4.1 Brazil
 - 9.4.1.1 Market Trends
 - 9.4.1.2 Market Forecast
 - 9.4.2 Mexico
 - 9.4.2.1 Market Trends
 - 9.4.2.2 Market Forecast
 - 9.4.3 Others
 - 9.4.3.1 Market Trends
 - 9.4.3.2 Market Forecast
- 9.5 Middle East and Africa
 - 9.5.1 Market Trends
 - 9.5.2 Market Breakup by Country

9.5.3 Market Forecast

10 SWOT ANALYSIS

- 10.1 Overview
- 10.2 Strengths
- 10.3 Weaknesses
- 10.4 Opportunities
- 10.5 Threats

11 VALUE CHAIN ANALYSIS

12 PORTERS FIVE FORCES ANALYSIS

- 12.1 Overview
- 12.2 Bargaining Power of Buyers
- 12.3 Bargaining Power of Suppliers
- 12.4 Degree of Competition
- 12.5 Threat of New Entrants
- 12.6 Threat of Substitutes

13 PRICE ANALYSIS

14 COMPETITIVE LANDSCAPE

- 14.1 Market Structure
- 14.2 Key Players
- 14.3 Profiles of Key Players
 - 14.3.1 Arkema S.A
 - 14.3.1.1 Company Overview
 - 14.3.1.2 Product Portfolio
 - 14.3.1.3 Financials
 - 14.3.1.4 SWOT Analysis
 - 14.3.2 Avient Corporation
 - 14.3.2.1 Company Overview
 - 14.3.2.2 Product Portfolio
 - 14.3.2.3 Financials
 - 14.3.2.4 SWOT Analysis
 - 14.3.3 Axiom Materials Inc.

- 14.3.3.1 Company Overview
- 14.3.3.2 Product Portfolio
- 14.3.4 Gurit
 - 14.3.4.1 Company Overview
 - 14.3.4.2 Product Portfolio
 - 14.3.4.3 Financials
- 14.3.5 Hexcel Corporation
 - 14.3.5.1 Company Overview
 - 14.3.5.2 Product Portfolio
 - 14.3.5.3 Financials
 - 14.3.5.4 SWOT Analysis
- 14.3.6 Huntsman Corporation LLC
 - 14.3.6.1 Company Overview
 - 14.3.6.2 Product Portfolio
- 14.3.7 Mitsubishi Chemical Holdings Corporation
 - 14.3.7.1 Company Overview
 - 14.3.7.2 Product Portfolio
 - 14.3.7.3 Financials
 - 14.3.7.4 SWOT Analysis
- 14.3.8 SGL Carbon SE
 - 14.3.8.1 Company Overview
 - 14.3.8.2 Product Portfolio
 - 14.3.8.3 Financials
 - 14.3.8.4 SWOT Analysis
- 14.3.9 Solvay S.A
 - 14.3.9.1 Company Overview
 - 14.3.9.2 Product Portfolio
 - 14.3.9.3 Financials
 - 14.3.9.4 SWOT Analysis
- 14.3.10 Teijin Limited
 - 14.3.10.1 Company Overview
 - 14.3.10.2 Product Portfolio
 - 14.3.10.3 Financials
 - 14.3.10.4 SWOT Analysis
- 14.3.11 Toray Industries Inc.
 - 14.3.11.1 Company Overview
 - 14.3.11.2 Product Portfolio
 - 14.3.11.3 Financials
 - 14.3.11.4 SWOT Analysis

List Of Tables

LIST OF TABLES

Table 1: Global: Epoxy Composite Market: Key Industry Highlights, 2022 and 2028

Table 2: Global: Epoxy Composite Market Forecast: Breakup by Fiber Type (in Million US\$), 2023-2028

Table 3: Global: Epoxy Composite Market Forecast: Breakup by Manufacturing Process (in Million US\$), 2023-2028

Table 4: Global: Epoxy Composite Market Forecast: Breakup by End User (in Million US\$), 2023-2028

Table 5: Global: Epoxy Composite Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 6: Global: Epoxy Composite Market: Competitive Structure

Table 7: Global: Epoxy Composite Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Epoxy Composite Market: Major Drivers and Challenges

Figure 2: Global: Epoxy Composite Market: Sales Value (in Billion US\$), 2017-2022

Figure 3: Global: Epoxy Composite Market Forecast: Sales Value (in Billion US\$), 2023-2028

Figure 4: Global: Epoxy Composite Market: Breakup by Fiber Type (in %), 2022

Figure 5: Global: Epoxy Composite Market: Breakup by Manufacturing Process (in %), 2022

Figure 6: Global: Epoxy Composite Market: Breakup by End User (in %), 2022

Figure 7: Global: Epoxy Composite Market: Breakup by Region (in %), 2022

Figure 8: Global: Epoxy Composite (Glass Fiber) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 9: Global: Epoxy Composite (Glass Fiber) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 10: Global: Epoxy Composite (Carbon Fiber) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 11: Global: Epoxy Composite (Carbon Fiber) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 12: Global: Epoxy Composite (Other Fiber Types) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 13: Global: Epoxy Composite (Other Fiber Types) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 14: Global: Epoxy Composite (Lay-up) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 15: Global: Epoxy Composite (Lay-up) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 16: Global: Epoxy Composite (Compression Moulding) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 17: Global: Epoxy Composite (Compression Moulding) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 18: Global: Epoxy Composite (Resin Injection) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 19: Global: Epoxy Composite (Resin Injection) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 20: Global: Epoxy Composite (Resin Transfer Moulding) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 21: Global: Epoxy Composite (Resin Transfer Moulding) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 22: Global: Epoxy Composite (Filament Winding) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 23: Global: Epoxy Composite (Filament Winding) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 24: Global: Epoxy Composite (Pultrusion) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 25: Global: Epoxy Composite (Pultrusion) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 26: Global: Epoxy Composite (Aerospace and Defense) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 27: Global: Epoxy Composite (Aerospace and Defense) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 28: Global: Epoxy Composite (Automotive) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 29: Global: Epoxy Composite (Automotive) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 30: Global: Epoxy Composite (Electrical and Electronics) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 31: Global: Epoxy Composite (Electrical and Electronics) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 32: Global: Epoxy Composite (Wind Energy) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 33: Global: Epoxy Composite (Wind Energy) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 34: Global: Epoxy Composite (Sporting Goods) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 35: Global: Epoxy Composite (Sporting Goods) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 36: Global: Epoxy Composite (Marine) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 37: Global: Epoxy Composite (Marine) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 38: Global: Epoxy Composite (Piping) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 39: Global: Epoxy Composite (Piping) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 40: Global: Epoxy Composite (Other End Users) Market: Sales Value (in Million

US\$), 2017 & 2022

Figure 41: Global: Epoxy Composite (Other End Users) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 42: North America: Epoxy Composite Market: Sales Value (in Million US\$), 2017 & 2022

Figure 43: North America: Epoxy Composite Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 44: United States: Epoxy Composite Market: Sales Value (in Million US\$), 2017 & 2022

Figure 45: United States: Epoxy Composite Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 46: Canada: Epoxy Composite Market: Sales Value (in Million US\$), 2017 & 2022

Figure 47: Canada: Epoxy Composite Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 48: Asia-Pacific: Epoxy Composite Market: Sales Value (in Million US\$), 2017 & 2022

Figure 49: Asia-Pacific: Epoxy Composite Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 50: China: Epoxy Composite Market: Sales Value (in Million US\$), 2017 & 2022

Figure 51: China: Epoxy Composite Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 52: Japan: Epoxy Composite Market: Sales Value (in Million US\$), 2017 & 2022

Figure 53: Japan: Epoxy Composite Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 54: India: Epoxy Composite Market: Sales Value (in Million US\$), 2017 & 2022

Figure 55: India: Epoxy Composite Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 56: South Korea: Epoxy Composite Market: Sales Value (in Million US\$), 2017 & 2022

Figure 57: South Korea: Epoxy Composite Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 58: Australia: Epoxy Composite Market: Sales Value (in Million US\$), 2017 & 2022

Figure 59: Australia: Epoxy Composite Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 60: Indonesia: Epoxy Composite Market: Sales Value (in Million US\$), 2017 & 2022

Figure 61: Indonesia: Epoxy Composite Market Forecast: Sales Value (in Million US\$),

2023-2028

Figure 62: Others: Epoxy Composite Market: Sales Value (in Million US\$), 2017 & 2022

Figure 63: Others: Epoxy Composite Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 64: Europe: Epoxy Composite Market: Sales Value (in Million US\$), 2017 & 2022

Figure 65: Europe: Epoxy Composite Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 66: Germany: Epoxy Composite Market: Sales Value (in Million US\$), 2017 & 2022

Figure 67: Germany: Epoxy Composite Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 68: France: Epoxy Composite Market: Sales Value (in Million US\$), 2017 & 2022

Figure 69: France: Epoxy Composite Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 70: United Kingdom: Epoxy Composite Market: Sales Value (in Million US\$), 2017 & 2022

Figure 71: United Kingdom: Epoxy Composite Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 72: Italy: Epoxy Composite Market: Sales Value (in Million US\$), 2017 & 2022

Figure 73: Italy: Epoxy Composite Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 74: Spain: Epoxy Composite Market: Sales Value (in Million US\$), 2017 & 2022

Figure 75: Spain: Epoxy Composite Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 76: Russia: Epoxy Composite Market: Sales Value (in Million US\$), 2017 & 2022

Figure 77: Russia: Epoxy Composite Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 78: Others: Epoxy Composite Market: Sales Value (in Million US\$), 2017 & 2022

Figure 79: Others: Epoxy Composite Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 80: Latin America: Epoxy Composite Market: Sales Value (in Million US\$), 2017 & 2022

Figure 81: Latin America: Epoxy Composite Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 82: Brazil: Epoxy Composite Market: Sales Value (in Million US\$), 2017 & 2022

Figure 83: Brazil: Epoxy Composite Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 84: Mexico: Epoxy Composite Market: Sales Value (in Million US\$), 2017 & 2022

Figure 85: Mexico: Epoxy Composite Market Forecast: Sales Value (in Million US\$),

2023-2028

Figure 86: Others: Epoxy Composite Market: Sales Value (in Million US\$), 2017 & 2022

Figure 87: Others: Epoxy Composite Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 88: Middle East and Africa: Epoxy Composite Market: Sales Value (in Million US\$), 2017 & 2022

Figure 89: Middle East and Africa: Epoxy Composite Market: Breakup by Country (in %), 2022

Figure 90: Middle East and Africa: Epoxy Composite Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 91: Global: Epoxy Composite Industry: SWOT Analysis

Figure 92: Global: Epoxy Composite Industry: Value Chain Analysis

Figure 93: Global: Epoxy Composite Industry: Porter's Five Forces Analysis

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