+357 96 030922
info@marketpublishers.com

E-Glass Fiber Composite in the Consumer Goods Market Report: Trends, Forecast and Competitive Analysis to 2030

https://marketpublishers.com/r/EBAA3F19AED6EN.html
Date: December 2024
Pages: 150
Price: US$ 4,850.00 (Single User License)
ID: EBAA3F19AED6EN

Abstracts

2 – 3 business days after placing order

E-Glass Fiber Composite in Consumer Good Trends and Forecast

The future of global e-glass fiber composite in the consumer goods market looks promising with opportunities in the toy and sport equipment markets. The global e-glass fiber composite in the consumer goods market is expected to grow with a CAGR of 4.0% from 2024 to 2030. The major drivers for this market are the increasing demand for lightweight and durable materials in the consumer goods industry, the growing emphasis on sustainability, and advancements in manufacturing technology.

> Lucintel forecasts that, within the resin type category, UPR is expected to witness the highest growth over the forecast period.
>
> Within the application category, toys are expected to witness higher growth.
>
> In terms of regions, APAC is expected to witness the highest growth over the forecast period.

Gain valuable insights for your business decisions with our comprehensive 150+ page report.

Emerging Trends in the E-Glass Fiber Composite in Consumer Good Market

+357 96 030922
info@marketpublishers.com

The E-glass fiber composite in the consumer goods market is witnessing significant growth driven by advancements in material science and the increasing demand for lightweight, durable, and cost-effective products. E-glass fibers, known for their excellent strength-to-weight ratio, corrosion resistance, and affordability, are being increasingly incorporated into a wide range of consumer goods. From electronics and automotive parts to sporting equipment and home appliances, manufacturers are turning to E-Glass composites to enhance performance, durability, and sustainability.

Increasing Adoption in Consumer Electronics: E-glass fiber composites are increasingly being used in consumer electronics, such as smartphones, laptops, and tablets, to enhance structural integrity while keeping devices lightweight. These composites are particularly attractive for enclosures and casings, as they provide excellent impact resistance and thermal stability. The trend toward miniaturization of electronic devices, combined with consumer demand for durability and portability, has driven the adoption of E-Glass fibers. Additionally, their lower cost compared to alternatives like carbon fiber makes them a more economical choice for manufacturers aiming to reduce production costs without compromising quality.

Growing Use in Automotive Components: The automotive sector is another key area where E-Glass fiber composites are gaining traction. These composites are being used in the manufacturing of lightweight yet strong components such as body panels, bumpers, and interior parts. E-glass fibers help improve fuel efficiency by reducing the overall weight of vehicles, a crucial factor in meeting stricter fuel economy and emissions regulations. As electric vehicles (EVs) continue to rise in popularity, E-Glass composites are being integrated into EV components to improve energy efficiency, performance, and safety while maintaining cost-effectiveness, which further drives their adoption in the automotive industry.

Sustainability and Recycling Initiatives: Sustainability is a key driving force behind the growing use of E-Glass fiber composites in consumer goods. The demand for environmentally friendly materials has led manufacturers to explore eco-friendly production processes and recycling methods for composites. E-glass fibers, being recyclable, align with global sustainability goals and regulations. Manufacturers are focusing on improving the recyclability of E-Glass composites and reducing their environmental impact during production. These efforts are encouraging more companies in the consumer goods sector to choose E-Glass composites over traditional materials, contributing to a greener,

+357 96 030922
info@marketpublishers.com

more sustainable market.

Enhanced Durability and Performance in Sporting Goods: In the sporting goods market, E-Glass fiber composites are increasingly being utilized in equipment such as bicycles, helmets, surfboards, and fishing rods. The excellent strength, flexibility, and impact resistance of E-Glass makes it ideal for these applications, where both durability and lightweight design are critical. Sporting goods manufacturers are incorporating E-Glass fibers into their products to offer better performance, longer lifespan, and improved safety features. As consumers continue to seek high-performance and durable sports equipment, the demand for E-Glass composites in this sector is expected to grow, particularly in premium and professional-grade products.

Integration into Home Appliances and Furniture: E-glass composites are gaining popularity in the manufacturing of home appliances and furniture. The lightweight, corrosion-resistant, and durable properties of E-Glass fibers are being leveraged to enhance the performance and longevity of appliances such as refrigerators, washing machines, and microwaves. Additionally, these composites are being used in the design of modern furniture, offering aesthetic appeal along with enhanced structural support. The ability of E-Glass composites to withstand high temperatures and moisture, while being cost-effective, makes them a valuable material in these applications. This trend is expected to expand as manufacturers look for ways to improve the functionality and sustainability of consumer goods.

These trends reflect the growing importance of E-Glass fiber composites in the consumer demand market for high-performance, sustainable, and cost-effective products across various industries. The flexibility, durability, and environmental benefits of E-Glass composites are transforming how manufacturers approach product design and development in the consumer goods sector.

Recent Developments in the E-Glass Fiber Composite in Consumer Good Market

The E-Glass fiber composites in the consumer goods market are about technology changes, material changes as well as changes in the market. These changes are transforming how products are designed and marketed to meet the demand for lightweight, strong, and environmentally friendly materials.

+357 96 030922
info@marketpublishers.com

Increased Use in Automotive Applications: The use of E-Glass fiber composites in the production processes of automobiles as structural materials has largely increased and has led to substantial weight savings with no loss in the strength of the structures. This change helps automotive firms comply with the stringent rules regarding fuel consumption of automobiles as well as the high expectations for greener vehicles from customers.

Eco-Resins Advancement: Integra Sylmar opted to develop bio-resins that can work with E-Glass fibers. The growth in these composite materials' production is coming from using bio-based or recycled resins. Such developments are not only enticing green consumers but also with the regulatory requirements to respect environmental standards.

Adoption of Advanced Manufacturing Methods: Advanced manufacturing methods such as automatic layup and continuous fiber processing, are enhancing the production systems. Such approaches improve uniformity while minimizing production costs and making it possible to reduce the time of producing goods to a level that can meet the growing demand without affecting the quality of the products.

Increasing Applications in Technical Segments of Electronics: The demand for E-Glass fiber composites in manufacturing E-Glass fiber composites continues to thrive with niche applications in high-performance consumer goods and electronics. There is a focus on enhancement of such property polygons as impact resistance and thermal stability and these are opened up to more products with potential through E-glass composites.

Collaborative Approach in the Global Market: There have been more interactions between the players in the E-Glass fiber composites industry like material suppliers, manufacturers, and research institutions. Setting up partnerships is crucial for the creation of new technologies and for the exploitation of new applications which is very helpful in accelerating the rate of development of the industry.

These developments are having and will continue to have a far-reaching and positive influence on the E-Glass fiber composites in the consumer goods market, helping in the realization of improved applications and supported products. The market is thus poised for further growth and expansion of consumer goods applications as manufacturers

+357 96 030922
info@marketpublishers.com

seek to tap into these advancements.

Strategic Growth Opportunities for E-Glass Fiber Composite in Consumer Good Market

The E-glass fiber composites in the consumer goods market are expanding rapidly as industries seek lightweight, durable, and cost-effective materials to improve performance and sustainability. E-glass fibers, known for their high strength-to-weight ratio and versatility, are increasingly used in a variety of consumer goods applications, from electronics to sporting goods. With growing environmental concerns, the demand for materials that combine functionality with eco-friendly properties is on the rise. As technological advancements continue and industries seek more efficient production methods, several key applications are emerging as prime opportunities for strategic growth in the E-glass fiber composites market.

Consumer Electronics & Electrical Equipment: The use of E-glass fiber composites in electronics is a growing trend driven by the need for lighter, stronger, and more efficient components. In consumer electronics such as smartphones, laptops, and tablets, E-glass composites help reduce weight and improve durability while offering excellent electrical insulation properties. As manufacturers prioritize energy efficiency and longer-lasting devices, there is a significant opportunity to expand the use of E-glass fibers in housings, connectors, and enclosures. The growing push for sustainable, eco-friendly components also opens avenues for integrating recycled or bio-based E-glass composites in consumer electronic product designs.

Automotive and Transportation: The automotive and transportation sector presents a major growth opportunity for E-glass fiber composites, as manufacturers seek to meet stricter fuel efficiency and emission standards. E-glass composites, due to their lightweight yet strong properties, are ideal for replacing heavier materials in vehicle body panels, chassis, and interior components. This trend is particularly important as electric vehicle (EV) production grows, with E-glass composites contributing to better battery enclosures, heat resistance, and overall vehicle performance. Furthermore, the push for sustainable materials opens doors for E-glass composites, especially those made from recycled fibers or combined with bio-based resins.

Sporting Goods and Equipment: E-glass fiber composites are gaining popularity in the sporting goods market due to their strength, durability, and lightweight. Applications in products like bicycles, fishing rods, surfboards, and protective

+357 96 030922
info@marketpublishers.com

gear benefit from the material's resilience and ability to withstand high-impact stresses. As consumer preferences shift towards high-performance, sustainable sports equipment, manufacturers are increasingly incorporating E-glass composites to create lightweight, high-durability products. Additionally, advances in resin systems and composite fabrication techniques allow for greater design flexibility, offering further growth opportunities in custom-built, high-performance sporting goods.

Consumer Appliances and Household Goods: E-glass fiber composites are increasingly being used in the manufacture of consumer appliances and household goods, such as washing machines, refrigerators, and kitchenware. The primary benefits of E-glass composites in these applications include their ability to reduce weight, enhance durability, and improve thermal and electrical resistance. As consumers demand more energy-efficient, long-lasting, and sustainable products, manufacturers are turning to E-glass composites to meet these needs. Additionally, the rising trend toward eco-conscious consumerism is pushing brands to incorporate recycled or recyclable composites, further driving the adoption of E-glass fiber-based products in household appliances.

The strategic growth opportunities for E-glass fiber composites in the consumer goods market are wide-ranging, with key applications spanning electronics, automotive, sports, construction, and household goods. As industries continue to prioritize lightweight, durable, and sustainable materials, E-glass fibers are well-positioned to meet these demands. The ongoing technological advancements in manufacturing processes, combined with increasing consumer demand for eco-friendly products, will further accelerate the adoption of E-glass composites across these sectors. By capitalizing on these growth opportunities, manufacturers can strengthen their market position and contribute to the development of more sustainable and high-performance consumer goods.

E-Glass Fiber Composite in Consumer Good Market Driver and Challenges

The E-glass fiber composite market in consumer goods is experiencing growth driven by various technological, economic, and regulatory factors. E-glass fiber composites, known for their strength, lightweight properties, and versatility, are being increasingly adopted in industries such as automotive, construction, sports equipment, and consumer electronics. These materials provide superior durability and performance while also contributing to sustainability goals. However, the market also faces

+357 96 030922
info@marketpublishers.com

challenges, including the high cost of raw materials, production complexity, and regulatory hurdles.

The factors responsible for driving the E-glass fiber composite market in consumer goods include:

Growing Demand for Lightweight Materials: E-glass fiber composites are in high demand due to their ability to reduce weight while maintaining strength and durability. This is especially important in industries like automotive, where weight reduction contributes to improved fuel efficiency and reduced carbon emissions. Lightweight composites also enhance performance and consumer appeal in products like sports equipment and electronics.

Technological Advancements in Manufacturing Processes: Recent advancements in manufacturing technologies, including automated fiber placement and resin infusion techniques, have made the production of E-glass fiber composites more efficient. These innovations not only improve the consistency and quality of the composites but also reduce manufacturing costs, making them more accessible for use in consumer goods.

Increased Focus on Sustainability: As sustainability becomes a top priority for consumers and manufacturers alike, E-glass fiber composites are increasingly being viewed as a greener alternative to traditional materials. They are recyclable and require fewer resources for production, contributing to the reduction of environmental impact in industries like automotive and construction, where reducing waste and carbon footprints is essential.

Cost-Effectiveness Compared to Other Composites: E-glass fiber composites offer a more affordable alternative to high-performance composites like carbon fiber. This cost-effectiveness, combined with their excellent mechanical properties, has expanded their use in a wide range of consumer goods, making them an attractive choice for companies looking to improve product performance without significantly increasing costs.

Regulatory Pressures for Energy Efficiency and Safety: With increasing regulatory pressures on energy efficiency, safety, and sustainability—particularly in sectors like automotive and electronics—the demand for materials that meet stricter performance standards is growing. E-glass fiber composites are well-suited to meet these requirements, offering high strength, impact resistance, and

+357 96 030922
info@marketpublishers.com

durability while helping companies comply with regulations for fuel efficiency and environmental impact.

Challenges in the E-glass fiber composite market in consumer goods include:

High Raw Material Costs: The production of E-glass fiber composites requires high-quality raw materials, which can be costly. Fluctuations in the price of glass fibers, resins, and other components can lead to unpredictable production costs, which may limit the widespread adoption of these composites in consumer goods. High material costs also impact the profitability of companies using E-glass fiber composites in their products.

Complex Manufacturing Processes: While technological advancements have improved the efficiency of producing E-glass fiber composites, the manufacturing process is still relatively complex. Specialized equipment and skilled labor are required to handle and mold the materials, which can increase production times and costs. Scaling production while maintaining quality consistency remains a challenge for many manufacturers.

Limited Awareness and Acceptance in Some Consumer Goods Sectors: Despite the growing use of E-glass fiber composites, their adoption is still limited in certain consumer goods sectors, especially where traditional materials like metals and plastics dominate. There is a need for greater awareness of the benefits and potential applications of E-glass fiber composites, as well as education and incentives to encourage manufacturers to switch to these more sustainable materials.

The E-glass fiber composite market in consumer goods is driven by technological advancements, increasing demand for lightweight materials, and a focus on sustainability. However, challenges such as high raw material costs, complex manufacturing processes, and limited market awareness hinder its broader adoption. By addressing these challenges, the market can continue to expand, driving the use of high-performance, cost-effective, and environmentally friendly materials in consumer products across multiple sectors.

List of E-Glass Fiber Composite Companies in the Consumer Goods Market

+357 96 030922
info@marketpublishers.com

Companies in the Consumer Goods Market

Owens Corning

Jushi Group

Chongqing Polycomp International Corporation

Taishan Fiberglass

Taiwan Glass Group

Nippon Electric Glass

Sichuan Weibo

3B the Fiber Glass Company (Goa Glass Fiber)

Johns Manville Corporation

Nitto Boseki

E-Glass Fiber Composite in Consumer Good by Segment

The study includes a forecast for the global e-glass fiber composite in consumer good by resin type, type, application, and region.

E-Glass Fiber Composite in the Consumer Goods Market by Resin Type [Analysis by Value from 2018 to 2030]:

UPR

Vinyl Ester

Epoxy

PA Resin

+357 96 030922
info@marketpublishers.com

PP Resin

Phenolic Resin

Others

E-Glass Fiber Composite in the Consumer Goods Market by Type [Analysis by Value from 2018 to 2030]:

Hand Lay-Up

Spray-Up

Resin Infusion

Filament Winding

Pultrusion

Injection Molding

Compression Molding

Prepreg Lay Up

Others

E-Glass Fiber Composite in the Consumer Goods Market by Application [Analysis by Value from 2018 to 2030]:

Toys

Sports Equipments

Others

+357 96 030922
info@marketpublishers.com

E-Glass Fiber Composite in Consumer Good Market by Region [Analysis by Value from 2018 to 2030]:

North America

Europe

Asia Pacific

The Rest of the World

Country Wise Outlook for the E-Glass Fiber Composite in Consumer Good Market

The E-glass fiber composites market in consumer goods is undergoing significant improvements due to innovation, sustainability, and changes in consumer behavior and preferences. These developments span key markets, including the United States, China, Germany, India, and Japan, showing various applications in the automotive, electronics, and sports equipment industries. There is a revolution in the way products are designed and manufactured, driven by the current demand for lightweight and high-strength materials.

United States: In the United States, efforts toward the development of E-glass fiber composites are primarily focused on sustainability and enhancing the performance of the composites. Some companies have made it possible to use recycled materials in their composites, which are environmentally friendly while still adhering to performance criteria. These trends are commonly observed in the automotive sector, where lightweight composites help reduce factors contributing to fuel consumption and, therefore, emissions reduction. Furthermore, there is an increasing focus on R&D to develop new composite formulations that would not only improve durability but also lower production costs.

China: China, a country experiencing rapid growth in E-glass fiber composites, is driven by industrialization and urbanization. With the government's green initiatives, manufacturers are opting for eco-friendly composite development and production techniques. The increase in the manufacture of electric cars is another key driver, as E-glass composites are now being incorporated into light structural elements. Domestic businesses are also expanding their production

+357 96 030922
info@marketpublishers.com

capabilities to meet the growing demands of local and global markets.

Germany: The E-glass fiber composites market in Germany is characterized by technological advancements and high production quality. German companies have shifted their attention toward advanced processing and high-end applications, especially in the automotive and aerospace sectors. The opening of new smart and automated production facilities is enabling the development and integration of new customizable products. At the same time, industry cooperation with research institutes enhances advancements in composite material technologies.

India: In India, the E-glass fiber composites market is developing rapidly due to their application in lightweight housing, automotive, and other consumer goods. Under the Make in India scheme, the government is taking steps to improve manufacturing, which is attracting foreign investment in the composites sector. Domestic manufacturers must be increasingly inclined toward modern composite hosting techniques and functional applications to enhance diverse markets while ensuring practicality.

Japan: Japan is one of the most advanced countries in developing E-glass fiber composite technology. This can be attributed to the country’s focus on advanced materials science and marketing for the manufacture of high-performance E-glass composites in sectors such as electronics and sports. Japanese manufacturers are also investing heavily in improving material characteristics, such as heat resistance and strength, through R&D activities. In addition, the integration of robotics and automation into production processes is enhancing production efficiency and reducing costs.

Features of Global E-Glass Fiber Composite in the Consumer Goods Market

Market Size Estimates: E-glass fiber composite in the consumer goods market size estimation in terms of value ($B).

Trend and Forecast Analysis: Market trends (2018 to 2023) and forecast (2024 to 2030) by various segments and regions.

Segmentation Analysis: E-glass fiber composite in the consumer goods market size by resin type, type, application, and region in terms of value ($B).

+357 96 030922
info@marketpublishers.com

Regional Analysis: E-glass fiber composite in the consumer goods market breakdown by North America, Europe, Asia Pacific, and Rest of the World.

Growth Opportunities: Analysis of growth opportunities in different resin types, types, applications, and regions for the e-glass fiber composite in consumer good market .

Strategic Analysis: This includes M&A, new product development, and competitive landscape of the e-glass fiber composite in consumer good market .

Analysis of competitive intensity of the industry based on Porter's Five Forces model.

If you are looking to expand your business in this or adjacent markets, then contact us. We have done hundreds of strategic consulting projects in market entry, opportunity screening, due diligence, supply chain analysis, M & A, and more.

This report answers following 11 key questions:

Q.1. What are some of the most promising, high-growth opportunities for the e-glass fiber composite in the consumer goods market by resin type (UPR, vinyl ester, epoxy, PA resin, PP resin, phenolic resin, and others), type (hand lay-up, spray-up, resin infusion, filament winding, pultrusion, injection molding, compression molding, prepreg lay up, and others), application (toys, sports equipments, and others), and region (North America, Europe, Asia Pacific, and the Rest of the World)?

Q.2. Which segments will grow at a faster pace and why?

Q.3. Which region will grow at a faster pace and why?

Q.4. What are the key factors affecting market dynamics? What are the key challenges and business risks in this market?

Q.5. What are the business risks and competitive threats in this market?

Q.6. What are the emerging trends in this market and the reasons behind them?

Q.7. What are some of the changing demands of customers in the market?

Q.8. What are the new developments in the market? Which companies are leading

+357 96 030922
info@marketpublishers.com

these developments?

Q.9. Who are the major players in this market? What strategic initiatives are key players pursuing for business growth?

Q.10. What are some of the competing products in this market and how big of a threat do they pose for loss of market share by material or product substitution?

Q.11. What M&A activity has occurred in the last 5 years and what has its impact been on the industry?

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

4. MARKET TRENDS AND FORECAST ANALYSIS BY REGION FROM 2018 TO 2030

4.1: Global E-Glass Fiber Composite in the Consumer Goods Market by Region
4.2: North American E-Glass Fiber Composite in Consumer Good Market
  4.2.1: North American Market by Resin Type: UPR, Vinyl Ester, Epoxy, PA Resin, PP Resin, Phenolic Resin, and Others
  4.2.2: North American Market by Application: Toys, Sports Equipments, and Others
4.3: European E-Glass Fiber Composite in the Consumer Goods Market
  4.3.1: European Market by Resin Type: UPR, Vinyl Ester, Epoxy, PA Resin, PP Resin, Phenolic Resin, and Others
  4.3.2: European Market by Application: Toys, Sports Equipments, and Others
4.4: APAC E-Glass Fiber Composite in the Consumer Goods Market
  4.4.1: APAC Market by Resin Type: UPR, Vinyl Ester, Epoxy, PA Resin, PP Resin, Phenolic Resin, and Others
  4.4.2: APAC Market by Application: Toys, Sports Equipments, and Others
4.5: ROW E-Glass Fiber Composite in the Consumer Goods Market
  4.5.1: ROW Market by Resin Type: UPR, Vinyl Ester, Epoxy, PA Resin, PP Resin, Phenolic Resin, and Others
  4.5.2: ROW Market by Application: Toys, Sports Equipments, and Others

5. COMPETITOR ANALYSIS

5.1: Product Portfolio Analysis
5.2: Operational Integration
5.3: Porter’s Five Forces Analysis

6. GROWTH OPPORTUNITIES AND STRATEGIC ANALYSIS

6.1: Growth Opportunity Analysis
  6.1.1: Growth Opportunities for Global E-Glass Fiber Composite in the Consumer Goods Market by Resin Type
  6.1.2: Growth Opportunities for Global E-Glass Fiber Composite in the Consumer Goods Market by Type
  6.1.3: Growth Opportunities for Global E-Glass Fiber Composite in the Consumer Goods Market by Application
  6.1.4: Growth Opportunities for Global E-Glass Fiber Composite in the Consumer Goods Market by Region
6.2: Emerging Trends of Global E-Glass Fiber Composite in the Consumer Goods

+357 96 030922
info@marketpublishers.com

7. COMPANY PROFILES OF LEADING PLAYERS

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: E-Glass Fiber Composite in the Consumer Goods Market Report: Trends, Forecast and Competitive Analysis to 2030

Product link: https://marketpublishers.com/r/EBAA3F19AED6EN.html

Price: US$ 4,850.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/EBAA3F19AED6EN.html