

Glass Fiber Textile in the Consumer Good Market Report: Trends, Forecast and Competitive Analysis to 2031

<https://marketpublishers.com/r/GF22345BE661EN.html>

Date: November 2024

Pages: 150

Price: US\$ 4,850.00 (Single User License)

ID: GF22345BE661EN

Abstracts

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Glass Fiber Textile in the Consumer Good Trends and Forecast

The future of glass fiber textile in the global consumer good market looks promising with opportunities in the snowboard, surfboard, and watercraft markets. Glass fiber textile in the global consumer good market is expected to grow with a CAGR of 5.3% from 2025 to 2031. The major drivers for this market are the rising demand for eco-friendly materials, increased consumer awareness of health and safety, and technological advancements enabling innovative product applications and designs.

Lucintel forecasts that, within the product type category, non-crimp is expected to witness the highest growth over the forecast period.

Within the application category, snowboards are expected to witness the highest growth.

In terms of regions, APAC is expected to witness the highest growth over the forecast period.

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Emerging Trends in Glass Fiber Textile in the Consumer Good Market

Glass Fiber Textile in the Consumer Good Market Report: Trends, Forecast and Competitive Analysis to 2031

The glass fiber textile market is a significant player in molding consumer products. These shifts have been driven by different forms of technology, the need for eco-friendliness, and changes in consumer attitudes toward durable, fireproof, and environmentally safe products.

Sustainability and Recycled Materials: Glass fiber manufacturers are shifting toward using recycled glass fibers to meet the increased demand for more sustainable products. This trend also helps reduce production costs and appeals to eco-enthusiasts. These materials are being utilized in many consumer products, including clothing, home appliances, and furnishings while assisting brands in complying with ever-stricter consumer and environmental laws.

Smart Textiles and Integration with IoT: The application of glass fiber fabrics in specialized applications is growing. Glass fiber textiles are being incorporated into electronic devices, making them suitable for smart textiles and other internet-connected products, including fitness trackers. Their properties of being conductive, strong, and heat-resistant make them perfect for such uses, and companies are enhancing the wearability features of these fabrics.

Use of Glass Fiber Textiles in Automotive Applications: Glass fiber fabrics are now extensively applied in car interiors due to their lightweight, fireproof, and durable characteristics. In automotive applications, demand is driven by trends such as electric vehicles, where materials are needed for weight reduction and performance enhancement. With the increasing demand from consumers for high-quality and luxurious interiors, manufacturers have started using glass fiber textiles in seating, dashboards, and other trim parts of automobiles.

Use in Fire-Resistant and Safety Products: There is an urgent need to focus on the emergence of fireproofing in consumer goods. These products range from electrical appliances to construction materials and furniture, and more safely incorporate glass fiber textiles due to their heat and flame resistance. Especially with the Fourth Industrial Revolution, which is characterized by the rapid development of technology and changing lifestyles, the use of glass fiber textiles in construction, furniture, and children's products markets is increasing for safe and durable materials.

Innovations in Aesthetic and Functional Customization: Manufacturing advancements are leading to increased customization of glass fiber textiles,

providing more aesthetic options for consumers. It is now possible to create textiles in a variety of colors, textures, and finishes, making it possible to dress up high-end products like Louis Vuitton handbags and Hermès furniture. The strength of glass fiber textiles is now matched by their attractive appearance, increasing hybrid products that combine both aesthetic and functional features.

These trends indicate that the penetration of glass fiber textiles into the consumer good market is growing, with these materials increasingly associated with versatility, longevity, and eco-friendliness. Due to technological development, they have also become an ideal option in various domains, including home furnishings and wearable electronics.

Recent Developments in Glass Fiber Textile in the Consumer Good Market

The recent trends that are catching up in the glass fiber textile in the consumer good market are two-fold, one pointing towards new technologies, the other towards changing consumer patterns. These developments are changing the market and preparing for new growth areas.

Automation in Production: Automation has progressed and has blazed massive trails toward operation in the type and endurance of production of glass fiber textiles. With the help of automation, the efficiency of production is increased, production expenditures are decreased, and new complex designs of fabrics can be utilized. This is especially important where consumer products are concerned since production cycles will be quicker and as a result, manufacturing will more likely take place on a bigger scale.

Safe and Environmentally Friendly Production Methods: Several glass fiber manufacturers are switching to more ecofriendly glass fiber... utilization of recycled, low-energy glass fiber in production is also on the rise. This trend will deepen further enhancing the adoption of glass fiber textiles among ecofriendly consumers and environmentally concerned brands especially in fashion and home industries.

Integration with Composite Materials: Increasingly, glass fibers are being hybridized with other materials such as plastic and resin, to provide composite textiles. This is more so in the construction and automobile industries but is also making its way to the market for example in the production of bags, furniture,

and sports equipment. The combination entails enhancing strength reducing weight and increasing the abilities offered above.

Customization and Design Innovation: There is a growing acceptance of using glass fiber textiles to develop localized design solutions across various England consumer goods sectors. Glass fiber textiles are feeling the needs and wants of the consumers in that they now come in different textures, colors, and finishes which expands the scope of use of such items by the consumers. This trend is employing their application in fashion, furniture, interior design, and other industries.

Advanced Product Testing and Quality Control: Glass fiber textile manufacturers are also focusing, both in terms of budget and infrastructural investment, on the areas of testing and quality control to comply with domestic and international safety and performance regulations. This is especially true with the automotive and construction industries where glass fiber textiles are now being incorporated for the production of fire retardant and long-lasting consumer products.

These developments are facilitating the penetration of glass fiber textiles in the consumer goods markets, in which the end consumers are increasingly focused on the parameters of durability, sustainability, and safety. Now, more and more manufacturers are ready to present eco-friendly and innovative, but durable products in such spheres as fashion, furniture, and electronics.

Strategic Growth Opportunities for Glass Fiber Textile in the Consumer Good Market

Glass fiber textile in the consumer good market has a profound growth potential such investment in these areas is strategic for manufacturers to prepare for the future market as well as the new demands of the industry.

Automotive Interiors: The specific use of glass fiber textiles in the interiors of vehicles is on the rise as their dimensions are small, fire-resistant, and durable. This sector presents growth opportunities as manufacturers look for substances that minimize the weight of vehicles and enhance the fuel efficiency of electric vehicles. This trend is also propelled by increasing orders for better-grade and eco-friendly materials in the car interiors.

Sustainable Fashion: Due to the increasing interest among consumers for green

products, glass fiber textiles can be pitched in the sustainable fashion industry. Designers of dresses are venturing into glass fiber textiles in the high-tech and eco-aware clothing ranges. Companies, therefore, have opportunities to explore the market due to the flexibility and strength that the glass fiber fabrics provide.

Construction and Insulation Materials Building: Glass fiber textiles find application in many construction materials, including insulating materials and protective coatings. Due to the increase in construction activities the world over and the rising need for fire-resistant and energy-efficient buildings, the glass fiber market for this application is expected to experience tremendous growth.

Sports Equipment and Gear: There has been a gradual inclusion of glass fiber textiles in the making of sports equipment such as bicycles, surfboards, helmets, and other gear since they are lightweight and impact-resistant. With the inflating demand for long-lasting and high-performance sporting goods, glass fiber textiles will create a window for capturing this niche market.

Consumer Electronics: In the economy, glass fiber textiles are being applied to the electronic sector mainly in the packaging and insulation sector. These kinds of textiles can shield electronics from heat, and electromagnetic interference which makes them suitable for smartphones, computers, and wearable devices. Just like the other industries, the consumer electronic industry continues to expand which in turn correspondingly increases glass fiber textiles.

These growth opportunities affirm the continuing encroachment of the market share of glass fiber textiles across ships of consumer goods. Since the demand for long-lasting, environment-friendly, and performance-oriented applications rises, the opportunities for market growth in these targeted applications will be increased for the glass fiber textiles market.

Glass Fiber Textile in the Consumer Good Market Driver and Challenges

Glass fiber textile in the consumer goods market is shaped by both external influences, such as market pull factors, and its internal barriers to development, including low adoption of technology, changes in regulations, and market demand for sustainability and performance, among many others.

The factors responsible for driving glass fiber textile in the consumer goods market

include:

Changes in Textile Machinery and Fabrics: Due to technological advancements, the production of glass fibers and textiles at lower costs has become easier, which is facilitated by the utilization of optimizations. This maximizes the potential of the industry and stimulates the adoption of these materials in goods for end users.

Demand for Sustainable Materials: As consumer awareness of global warming increases, there is growing demand for sustainable materials such as reclaimed glass fiber thermoplastics. This is particularly evident in the fashion and home goods industries, where consumers are more willing to purchase green products.

Rise of Smart Textiles and Wearable Technology: Innovations that have contributed to the development of wearable technology and smart textiles have created a need for new materials, such as glass fibers, that offer durability and thermal insulation. These materials are highly applicable in the rapidly growing health and fitness sector, which uses advanced textiles for various purposes.

Regulatory Requirements for Fire Safety: The automotive, construction, and other industries require fire-resistant materials as fire safety codes continue to tighten. As companies strive to comply with fire safety regulations, glass fiber textiles have found widespread use, with significant market growth in the building materials and furniture industries.

Lightweighting in Transportation: With increasing demands for weight optimization for energy efficiency and improved performance, glass fiber textiles are being more widely accepted in the automotive and aerospace industries. These materials help make products lighter for easier handling, thus increasing the demand for non-woven textiles.

Challenges in glass fiber textile in the consumer goods market include:

High Production Costs: Despite some technological improvements that enable faster production, the process of manufacturing glass fiber textiles remains capital-intensive. The high initial costs of purchasing sophisticated materials, machinery, and technology are significant barriers, particularly for small and

medium-sized enterprises.

Limited Consumer Awareness: While some consumers fully recognize the advantages of glass fiber textiles, the overall awareness among the general population remains low compared to more common materials like cotton or polyester. This lack of awareness could impede market penetration, especially in sectors such as fashion and home décor.

Regulatory Barriers: In certain markets, particularly environmental regulations, some regulations may be restrictive to the development of glass fiber fabrics. Certain guidelines, if followed, ensure compliance with these regulations, but they pose additional costs and are often more complicated to navigate.

This includes advancements in technology and sustainability issues that enable the growth of glass fiber textiles in the consumer goods market. However, further expansion plans and broader market acceptance are hampered by high production costs and low consumer awareness.

List of Glass Fiber Textile Companies in the Consumer Goods Industry

Companies in the market compete on the basis of product quality offered. Major players in this market focus on expanding their manufacturing facilities, R&D investments, infrastructural development, and leverage integration opportunities across the value chain. Through these strategies glass fiber textile companies in the consumer goods industry cater increasing demand, ensure competitive effectiveness, develop innovative products & technologies, reduce production costs, and expand their customer base. Some of the glass fiber textile companies in the consumer goods industry profiled in this report include-

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

Glass Fiber Textile in the Consumer Good Market by Segment

The study includes a forecast for glass fiber textile in the consumer good market by product type, application, and region.

Glass Fiber Textile in the Consumer Good Market by Product Type [Analysis by Value from 2019 to 2031]:

Woven Roving

Non-Crimp

Woven Yarn

CFM/CSM

Glass Fiber Textile in the Consumer Good Market by Application [Analysis by Value from 2019 to 2031]:

Snowboard

Surfboard

Water Craft

Others

Glass Fiber Textile in the Consumer Good Market by Region [Analysis by Value from 2019 to 2031]:

North America

Europe

Asia Pacific

The Rest of the World

Country Wise Outlook for Glass Fiber Textile in the Consumer Good Market

The glass fiber textile market is crucial in producing lightweight, durable, and sustainable materials for consumer goods. Its applications range from electronics to household items, offering versatility and eco-friendliness that align with global sustainability goals. Recent developments in this market highlight advancements in production technologies, increased demand driven by industrialization, and a growing emphasis on renewable energy and circular economy practices. Each region plays a unique role, reflecting local economic and environmental priorities.

United States: The U.S. market has seen increased integration of glass fiber textiles in high-performance consumer goods, such as durable electronics and smart home devices. Innovations focus on creating recyclable and bio-resin-based products, aligning with stricter environmental regulations and consumer demand for sustainable goods.

China: China remains the largest producer and consumer of glass fiber textiles, supported by robust manufacturing and construction industries. Recent developments include expanding applications in household items and consumer electronics, as well as increased use in renewable energy sectors like wind turbines. Chinese manufacturers are adopting greener practices, including innovations in recyclable glass fiber composites, in line with government mandates for sustainable production. The market benefits from a strong supply chain and significant investments in advanced manufacturing technologies.

Germany: Developments in energy-efficient consumer goods also contribute to growth, emphasizing high-quality, sustainable production methods. German companies are investing in bio-resins and other eco-friendly technologies to comply with EU regulations. The country's leadership in engineering has led to the creation of composites with enhanced durability and thermal resistance, boosting their appeal across various consumer applications.

India: India's glass fiber textile market is expanding, supported by rapid urbanization and rising demand for durable consumer goods. Domestic manufacturers are scaling up production, leveraging cost-efficient processes to reduce reliance on imports. Key developments include the introduction of high-performance composites tailored for electronics and household items. The government's emphasis on infrastructure development and industrialization provides further impetus, while efforts to incorporate sustainability practices, such as bio-based materials, are gaining momentum.

Japan: Japan's glass fiber market focuses on high-tech consumer goods and precision applications in electronics and robotics. Recent advancements include the development of thinner, more flexible fibers for compact, portable devices. Companies emphasize energy-efficient production methods and materials to align with Japan's environmental goals. With strong R&D capabilities, Japan is pioneering smart glass fiber textiles, integrating electronic functionalities for advanced consumer applications. Collaboration with global partners fosters innovation and market expansion.

Features of Glass Fiber Textile in the Global Consumer Good Market

Market Size Estimates: Glass fiber textile in the consumer good market size estimation in terms of value (\$B).

Trend and Forecast Analysis: Market trends (2019 to 2024) and forecast (2025 to 2031) by various segments and regions.

Segmentation Analysis: Glass fiber textile in the consumer good market size by product type, application, and region in terms of value (\$B).

Regional Analysis: Glass fiber textile in the consumer good market breakdown by North America, Europe, Asia Pacific, and Rest of the World.

Growth Opportunities: Analysis of growth opportunities in different product type, application, and regions for the glass fiber textile in the consumer good market.

Strategic Analysis: This includes M&A, new product development, and competitive landscape of the glass fiber textile in the 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 glass fiber textile in the consumer good market by product type (woven roving, non-crimp, woven yarn, and cfm/csm), application (snowboard, surfboard, water craft, 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 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?

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- 7.9: Johns Manville Corporation
- 7.10: Nitto Boseki

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