+357 96 030922
info@marketpublishers.com

Bio-based Composites Market Forecasts to 2032 – Global Analysis By Product (Laminates, Molded Components, Pultruded Profiles, Fibers & Fabrics and Sheets & Panels), Resin Type, Reinforcement Type, Application and By Geography

https://marketpublishers.com/r/B97620B3287FEN.html
Date: July 2025
Pages: 200
Price: US$ 4,150.00 (Single User License)
ID: B97620B3287FEN

Abstracts

According to Stratistics MRC, the Global Bio-based Composites Market is accounted for $7.06 billion in 2025 and is expected to reach $13.24 billion by 2032 growing at a CAGR of 9.4% during the forecast period. Bio-based composites are advanced materials composed of natural fibers or bio-derived polymers combined with a matrix material, typically to enhance mechanical strength, durability, and sustainability. Unlike conventional composites made from petroleum-based plastics, bio-based composites utilize renewable resources such as plant fibers (e.g., flax, hemp, jute) or biodegradable resins. They offer environmental benefits, including reduced carbon footprint, lower energy consumption, and improved recyclability, while maintaining desirable structural properties. Widely used in automotive, construction, packaging, and consumer goods, bio-based composites represent a shift toward greener, more sustainable material solutions for modern industries.

Market Dynamics:

Driver:

Environmental sustainability and regulatory support

Stricter emissions mandates and circular economy policies are accelerating the shift toward renewable and biodegradable materials. Integration with plant-based fibers, recycled polymers, and low-impact resins is fostering adoption across industrial

+357 96 030922
info@marketpublishers.com

applications. Manufacturers are investing in lifecycle-optimized formats to meet evolving environmental standards. Public and private initiatives promoting green procurement are propelling market expansion. These dynamics are expected to significantly boost the bio-based composites market.

Restraint:

Limited availability of raw materials

Seasonal variability, geographic concentration, and inconsistent quality of natural fibers are degrading supply chain reliability. Processing challenges and moisture sensitivity are constraining performance optimization. Manufacturers face barriers in sourcing high-volume, standardized inputs for industrial-scale deployment. Competition with food and textile sectors for agricultural feedstock is further limiting access. These limitations are expected to constrain the bio-based composites market.

Opportunity:

Rising consumer demand for green products

Preference for sustainable packaging, furniture, and automotive interiors is accelerating adoption of renewable materials. Integration with eco-labeling, carbon-neutral branding, and ESG reporting is fostering market visibility. Retailers and OEMs are scaling use of bio-composites to meet sustainability targets. Innovation in hybrid formats and performance-enhanced natural fibers is propelling product differentiation. These trends are expected to significantly boost the bio-based composites market.

Threat:

Market awareness and acceptance

Misconceptions around durability, cost, and recyclability are degrading consumer and institutional confidence. Lack of standardized certifications and performance benchmarks is constraining procurement decisions. Manufacturers face challenges in educating stakeholders and aligning with conventional material expectations. Competitive pressure from synthetic alternatives is slowing transition in cost-sensitive applications. Such constraints are expected to hinder the bio-based composites market.

Covid-19 Impact:

+357 96 030922
info@marketpublishers.com

The Covid-19 pandemic disrupted supply chains and delayed adoption of bio-based composites across construction and automotive sectors. Shutdowns in manufacturing and logistics degraded access to natural fiber inputs and processing capacity. Demand for sustainable materials rebounded post-pandemic due to renewed focus on health, safety, and environmental resilience. Remote work trends and green building initiatives are accelerating use in furniture and interior applications. Digital sourcing platforms and localized production models are fostering supply chain recovery. These shifts are expected to propel the bio-based composites market.

The Laminates segment is expected to be the largest during the forecast period

The Laminates segment is expected to account for the largest market share during the forecast period due to environmental sustainability and regulatory support driving demand for durable, renewable surface materials. Applications in furniture, flooring, and wall panels are accelerating use of bio-based laminates across residential and commercial spaces. Integration with recycled resins and natural fiber reinforcements is fostering performance and aesthetic versatility. Manufacturers are investing in moisture-resistant, low-emission formats to meet indoor air quality standards. Growth in modular construction and prefabricated interiors is boosting segment scalability. This segment is expected to significantly boost the bio-based composites market.

The construction & building segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the construction & building segment is predicted to witness the highest growth rate drive adoption of bio-based materials in infrastructure. Applications in insulation, cladding, decking, and structural panels are accelerating use across green buildings. Integration with LEED certification, carbon-neutral design, and circular construction models is fostering institutional uptake. Government-backed housing programs and urban renewal initiatives are propelling demand for renewable alternatives. Manufacturers are optimizing composites for fire resistance, load-bearing capacity, and thermal performance. This segment is expected to propel the bio-based composites market.

Region with largest share:

During the forecast period, the Europe region is expected to hold the largest market share , driven by strong regulatory frameworks and consumer preference for

+357 96 030922
info@marketpublishers.com

sustainable materials. EU directives on waste reduction, renewable sourcing, and product labeling are accelerating adoption across industries. Germany, France, and the Nordics are scaling use of bio-composites in automotive, packaging, and construction. Regional innovation in fiber processing and resin chemistry is fostering product diversification. Public-private partnerships and green procurement policies are boosting institutional demand.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, propelled by rising environmental awareness and expanding industrial capacity. China, India, Japan, and Southeast Asia are accelerating adoption of bio-composites in packaging, consumer goods, and infrastructure. Government incentives for sustainable manufacturing and renewable materials are fostering market growth. Local availability of agricultural feedstock and low-cost labour is boosting production scalability. Regional investment in green construction and automotive innovation is propelling demand.

Key players in the market

Some of the key players in Bio-based Composites Market include FlexForm Technologies, UPM-Kymmene Corporation, Trex Company, Inc., Green Dot Bioplastics, Tecnaro GmbH, Lingrove, Inc., BASF SE, NatureWorks LLC, HempFlax Group B.V., Biome Bioplastics Ltd., Ecovative Design LLC, Bcomp Ltd., Covestro AG and Toray Industries, Inc.

Key Developments:

In August 2025, Trex Company, Inc. broadened its partnership with International Wood Products (IWP) by exclusively stocking Trex decking and railing products at all six of IWP's distribution centers in the Western U.S., including a new facility in Salt Lake City, Utah. This expansion enhances Trex's reach in the Intermountain West region, supporting the growing demand for sustainable outdoor living solutions.

In May 2024, UPM announced a partnership with Artigo to supply UPM BioMotion™ renewable functional fillers for next-generation rubber flooring. This collaboration aims to enhance the sustainability and performance of flooring materials in commercial and institutional settings.

Products Covered:

+357 96 030922
info@marketpublishers.com

- Laminates
- Molded Components
- Sheets & Panels
- Pultruded Profiles
- Fibers & Fabrics

Resin Types Covered:

- Bio-based Epoxy
- Bio-based Polyester
- Bio-based Vinyl Ester
- PLA (Polylactic Acid) Composites
- Other Resin Types

Reinforcement Types Covered:

- Natural Fibers
- Bio-based Fillers

Applications Covered:

- Automotive & Transportation
- Construction & Building
- Consumer Goods & Packaging

+357 96 030922
info@marketpublishers.com

- Electrical & Electronics
- Aerospace & Defense
- Sports & Leisure
- Marine
- Other Applications

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe
- Asia Pacific
  - Japan

+357 96 030922
info@marketpublishers.com

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032

+357 96 030922
info@marketpublishers.com

- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

9 GLOBAL BIO-BASED COMPOSITES MARKET, BY GEOGRAPHY

+357 96 030922
info@marketpublishers.com

10 KEY DEVELOPMENTS

11 COMPANY PROFILING

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+357 96 030922
info@marketpublishers.com

Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Bio-based Composites Market Forecasts to 2032 – Global Analysis By Product (Laminates, Molded Components, Pultruded Profiles, Fibers & Fabrics and Sheets & Panels), Resin Type, Reinforcement Type, Application and By Geography

Product link: https://marketpublishers.com/r/B97620B3287FEN.html

Price: US$ 4,150.00 (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/B97620B3287FEN.html