

# **Banana Fiber Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Raw Banana Fiber, Processed Banana Fiber, Blended Banana Fiber), By Product (Bags, Ropes, Textiles, Craft Items, Home Furnishings), By End Use Industry (Fashion and Apparel, Construction, Automotive, Packaging, Agriculture), By Region & Competition, 2021-2031F**

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## **Abstracts**

The Global Banana Fiber Market is projected to expand significantly, rising from USD 98.91 Billion in 2025 to USD 140.46 Billion by 2031, demonstrating a Compound Annual Growth Rate (CAGR) of 6.02%. This robust growth is fueled by banana fiber, a high-strength lignocellulosic natural fiber derived from the banana plant's pseudo-stem, which offers a sustainable substitute for synthetic materials in both the textile and packaging sectors.

This market expansion is primarily driven by the increasing global demand for biodegradable and circular economy products, as fashion brands and industrial manufacturers seek to reduce their carbon footprint. A substantial volume of agricultural residue supports this growth; the Food and Agriculture Organization (FAO) estimated global banana production exceeded 135 million tonnes in 2024, providing a vast and renewable source of raw material for fiber processing.

## **Market Driver**

The banana fiber market is fundamentally shaped by the accelerating global demand for

sustainable and biodegradable textiles, prompting fashion brands to move away from petrochemical-based synthetics. This transition is motivated by an urgent need to mitigate the environmental impact of massive global textile production and by growing consumer expectations for circularity in fashion. With global fiber production reaching a record 124 million tonnes in 2023, as reported by Textile Exchange in October 2024, there is a critical need for alternative, circular feedstocks like banana fiber, which luxury and commercial brands are increasingly incorporating into their collections due to its high tensile strength and natural texture.

Concurrently, the market benefits from the automotive sector's increasing adoption of lightweight composites, where natural fibers are used to boost fuel efficiency and lower vehicle weight. Banana fiber serves as an effective reinforcement in polymer matrices, offering an advantageous strength-to-weight ratio for interior and structural components. The broader bio-composites industry is forecasted to achieve a net worth of approximately \$41 billion by 2025, according to The Cool Down in August 2024, indicating a strong future for natural fiber integration in mobility. This industrial scalability is further supported by high-yield agricultural practices, such as Gujarat's banana productivity of 58.9 tonnes per hectare, ensuring a consistent supply of pseudo-stem waste.

## **Market Challenge**

The Global Banana Fiber Market faces a significant obstacle due to the absence of technical standardization and its continued reliance on labor-intensive extraction methods. Because the fiber is primarily processed manually or with semi-mechanized tools, the resulting product often exhibits inconsistent tensile strength and variable texture. This lack of uniformity makes the fiber unsuitable for high-speed industrial spinning machinery utilized by major textile manufacturers, thereby raising operational costs and increasing rejection rates, which leads commercial fashion brands to deem the material too expensive and risky for mass-market collections, relegating it to niche or handicraft applications.

This inability to achieve economies of scale creates a considerable gap between the availability of raw materials and the actual adoption of the fiber. The processing bottleneck significantly limits the material's market penetration compared to established fibers. According to Textile Exchange, in 2025, the combined production volume of "other plant fibers," including banana fiber, constituted only about 5 percent of the global fiber market, underscoring how processing inefficiencies directly hinder banana fiber from leveraging its sustainability advantages to effectively compete with cotton or

polyester.

## Market Trends

The widespread integration of biodegradable banana fiber into menstrual hygiene products is emerging as a significant trend, directly addressing the critical environmental issue of single-use plastic waste in sanitary protection. Manufacturers are increasingly utilizing the fiber's inherent high absorbency and bacteriostatic properties to develop compostable alternatives to conventional pads, which can contain up to 90% plastic. This transition is moving beyond niche markets into mainstream retail, driven by growing consumer awareness regarding period poverty and environmental sustainability; for example, Sparkle's 2024 corporate update reported the successful launch of its banana fiber-based sanitary products in 491 Whole Foods Market stores across the U.S., signifying a major commercial expansion.

Simultaneously, the commercialization of pseudo-stem waste through circular economy models is transforming the packaging sector, particularly through the development of molded fiber products designed to replace Styrofoam and wood pulp. This trend centers on industrial-scale facilities that convert vast quantities of post-harvest banana stems, previously discarded as agricultural waste, into high-value, food-grade packaging and paper materials. Such industrialization enables the production of entirely biodegradable containers while creating additional revenue streams for banana cultivators. A notable development occurred in Egypt, where a newly commissioned facility dedicated to converting banana waste into eco-friendly cardboard packaging announced a production capacity of 60 million units annually, as reported by Daily News Egypt in October 2024.

## Key Market Players

Essence Fibers

Anandi Texstyles Pvt Ltd.

Champs Agro Unit

Dindayal Ropes India

Gagana Enterprises

Sp Grace Natural

Kanha Banana

Mandakini Textile

Paco Bioteck Pvt Ltd

Anis Enterprise Pvt Ltd

## Report Scope

In this report, the Global Banana Fiber Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

### Banana Fiber Market, By Type

Raw Banana Fiber

Processed Banana Fiber

Blended Banana Fiber

### Banana Fiber Market, By Product

Bags

Ropes

Textiles

Craft Items

Home Furnishings

### Banana Fiber Market, By End Use Industry

Fashion and Apparel

Construction

Automotive

Packaging

Agriculture

## Banana Fiber Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

## **Competitive Landscape**

Company Profiles: Detailed analysis of the major companies present in the Global Banana Fiber Market.

## **Available Customizations:**

Global Banana Fiber Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## **Company Information**

Detailed analysis and profiling of additional market players (up to five).

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