

# **Polyester Staple Fibre Market ? Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Product (Solid and Hollow), By Origin (Virgin, Recycled and Blended), By Applications (Automotive, Home Furnishings, Apparel, Filtration, Construction, Personal Care & Hygiene and Others), By Region & Competition, 2021-2031F**

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## **Abstracts**

The Global Polyester Staple Fibre Market is projected to expand from a valuation of USD 31.51 Billion in 2025 to USD 40.29 Billion by 2031, registering a CAGR of 4.18%. This synthetic material, derived from polyethylene terephthalate and cut into short discrete lengths, is engineered to replicate the physical characteristics of natural fibers like wool and cotton. Its versatility enables it to be spun largely on its own or blended with other substances to improve durability and wrinkle resistance across various textile applications. Growth is chiefly underpinned by increasing demand for economical blended fabrics in apparel and home furnishings, along with rising consumption in industrial non-woven sectors such as automotive interiors and filtration. Highlighting the sector's scale, Textile Exchange reported in 2025 that global polyester fiber production reached an estimated 78 million tonnes in 2024.

Despite this upward trajectory, the market confronts a major obstacle rooted in the volatility of upstream raw material costs. Since the creation of virgin polyester relies heavily on crude oil derivatives like Purified Terephthalic Acid and Mono Ethylene Glycol, unpredictable shifts in global oil prices result in fluctuating manufacturing costs. This dependence generates financial instability for manufacturers and presents a significant challenge to sustaining steady pricing strategies and profit margins that are requisite for long-term market growth.

## Market Driver

The robust growth of the global apparel and textile manufacturing industry acts as a primary catalyst for market advancement, fueled by rising consumption of synthetic blended fabrics in both fashion and functional wear. Polyester staple fibre is essential in this domain due to its capacity to economically emulate cotton and wool while delivering enhanced durability and moisture-wicking capabilities. Producers are ramping up output to satisfy the clothing requirements of an expanding population, notably in developing areas where synthetic fibers provide a scalable substitute for natural options. Illustrating this demand, Reliance Industries Limited stated in their August 2024 'Integrated Annual Report 2023-24' that domestic demand for the polyester chain in India increased by 4% year-on-year to 7.1 million metric tonnes, emphasizing the continued industrial need in key textile centers.

Concurrently, the surging demand for Recycled Polyester Staple Fiber (rPSF) is transforming the market as major brands shift toward circular economy frameworks to lessen environmental footprints. Strict regulations and corporate sustainability mandates are driving textile manufacturers to substitute virgin petrochemical fibers with rPSF made from post-consumer PET bottles, effectively lowering carbon emissions and waste. This transition is visible in the sourcing strategies of major sportswear and fashion entities that are aggressively raising their recycled material quotas. For instance, Adidas AG reported in March 2024 that it successfully shifted to 99% recycled polyester usage in 2023, highlighting the commercial focus on sustainable fibers. Facilitating this trade, the General Administration of Customs of the People's Republic of China noted in 2024 that exports of uncarded polyester staple fiber reached roughly 1.16 million tons in 2023, demonstrating strong cross-border flows.

## Market Challenge

The Global Polyester Staple Fibre Market encounters a substantial hurdle regarding the instability of upstream raw material costs. Because polyester staple fibre production is inherently tied to crude oil derivatives such as Purified Terephthalic Acid and Mono Ethylene Glycol, unforeseeable variances in global oil prices result in erratic manufacturing expenditures. This volatility establishes a precarious financial landscape where producers find it difficult to uphold stable pricing structures and safeguard profit margins. As a result, the difficulty in accurately forecasting costs discourages long-term capital investment and complicates operational strategy, thereby directly impeding the steady growth of the market.

This vulnerability is exacerbated by the industry's persistent reliance on fossil-based feedstocks. According to Textile Exchange data from 2024, virgin polyester comprised 88% of global polyester production volume, indicating that the vast majority of the market remains directly susceptible to crude oil price movements. Such a heavy dependence on a volatile commodity guarantees that any disturbance within the oil sector transmits immediate financial stress across the polyester staple fibre supply chain, effectively curtailing the market's resilience and potential for expansion.

## **Market Trends**

A structural shift is occurring with the rise of bio-based and biodegradable polyester alternatives, as manufacturers aim to detach fiber production from fossil fuel sources and tackle microplastic pollution. Distinct from established mechanical recycling techniques that utilize post-consumer PET bottles, this trend centers on synthesizing polymers from renewable biomass to produce fully compostable or recyclable virgin-quality fibers. Moving beyond experimental stages to industrial scalability, this innovation supports the creation of sustainable textiles that retain the performance standards of conventional synthetics. In a significant development, Avantium N.V. announced in August 2025 the successful start-up of the sugar dehydration unit at its FDCA Flagship Plant in the Netherlands, a key step enabling the commercial production of 100% plant-based PEF fibers for the global textile sector.

Simultaneously, the market is witnessing a proliferation of specialized hollow polyester fibers engineered for lightweight thermal regulation, responding to the changing technical demands of outdoor and functional apparel. These advanced fiber architectures employ intricate cross-sections, such as octagonal or multi-channel shapes, to encapsulate air within the core, delivering superior insulation and bulk without the heavy weight of solid fibers. This technological advancement permits brands to design high-performance winter garments that provide improved warmth-to-weight ratios. Confirming this trend, Teijin Frontier Co., Ltd. reported in October 2025 the launch of its 'THERMOFRONT' collection featuring hollow staple fibers, with projected sales of 300,000 meters in fiscal 2025 aimed at high-value sportswear segments.

## **Key Market Players**

Indorama Ventures Public Company Limited

Reliance Industries Limited

Alpek S.A.B. de C.V.

Toray Industries, Inc.

Zhejiang Hengyi Group Co., Ltd.

Tongkun Holding Group

Far Eastern New Century Corporation

Bombay Dyeing & Manufacturing Company Limited

Sinopec Yizheng Chemical Fibre Company Limited

Shenghong Group

## Report Scope

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

Polyester Staple Fibre Market, By Product

Solid

Hollow

Polyester Staple Fibre Market, By Origin

Virgin

Recycled

Blended

Polyester Staple Fibre Market, By Applications

Automotive

Home Furnishings

Apparel

Filtration

Construction

Personal Care & Hygiene

Others

## Polyester Staple Fibre 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 Polyester Staple Fibre Market.

## **Available Customizations:**

Global Polyester Staple Fibre 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**

*Polyester Staple Fibre Market ? Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By P...*

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

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