

## **Polyethylene Furanoate (PEF) Market by Source (Plant Based, Bio Based), Grade, Application (Bottles, Films, Fibers, Molded), End-Use Industry (Packaging, Fiber & Textiles, Electronics & Electrical, Pharmaceuticals), & Region - Global Forecast to 2028**

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### **Report description:**

The PEF market is projected to reach USD 28 million by 2028, at a CAGR of 8.1% from USD 19 million in 2023. The surge in demand for Polyethylene furanoate (PEF) in bottle production stems from its exceptional properties, notably its remarkable barrier qualities against gases like carbon dioxide and oxygen. This superior performance ensures extended shelf life and heightened preservation of product freshness, catering to the stringent requirements of the food and beverage industry. As consumers increasingly prioritize sustainability in their purchasing decisions, PEF emerges as a frontrunner, meeting eco-conscious preferences while maintaining the necessary functionality for packaging applications.

Concurrently, the burgeoning interest in PEF within the fiber segment emphasizes its adaptability and versatility. Its enhanced mechanical and thermal characteristics make it an enticing choice for crafting high-performance fibers, revolutionizing textiles and various industrial uses. PEF's eco-friendly profile aligns perfectly with the growing demand for sustainable materials in textiles, driving innovation in durable and environmentally responsible fabrics. This dual upsurge in demand from both bottle manufacturers and the fiber industry underscores a larger industry shift towards embracing sustainable solutions. Businesses capitalizing on PEF not only cater to evolving consumer desires but also demonstrate commitment to environmental responsibility, positioning themselves as industry leaders embracing sustainable practices amidst changing market dynamics.

"Fiber & textile segment is expected to account for the second-largest share in 2022."

The Fiber & Textile industry represents a significant end-use sector with promising potential for Polyethylene Furanoate (PEF) within the market. PEF, a bio-based polyester, offers distinctive advantages for this industry, particularly in the production of sustainable textiles and fibers. Its inherent properties, including enhanced strength, durability, and superior barrier capabilities

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compared to conventional plastics, make it an attractive material for textile applications. In this industry, PEF's renewable sourcing from plant-based materials aligns seamlessly with the growing consumer demand for eco-friendly and sustainable products. The textile sector, driven by an increasing emphasis on sustainability, seeks innovative materials to reduce its environmental impact. PEF emerges as a viable alternative, contributing to the development of environmentally conscious fabrics and fibers.

"Based on region, Europe region was the largest market for PEF in 2022, in terms of value."

Europe's stringent environmental regulations and robust commitment to sustainability initiatives, such as the Circular Economy Action Plan, create a fertile ground for eco-friendly alternatives. PEF's bio-based composition and potential biodegradability resonate well with these objectives, positioning it as an attractive material in compliance with Europe's sustainability goals. Moreover, European consumers demonstrate a strong inclination towards sustainable products. This growing preference, coupled with a willingness to invest in environmentally friendly options, bolsters the market potential for innovative materials like PEF. Additionally, Europe's well-established research and development infrastructure, coupled with supportive funding mechanisms, foster an environment conducive to PEF's development, scalability, and commercialization.

In the process of determining and verifying the market size for several segments and subsegments identified through secondary research, extensive primary interviews were conducted. A breakdown of the profiles of the primary interviewees are as follows:

- By Company Type: Tier 1 - 35%, Tier 2 - 45%, and Tier 3 - 20%
- By Designation: C-Level - 35%, Director Level - 25%, and Others - 40%
- By Region: North America - 25%, Europe - 45%, Asia Pacific - 20%, Middle East & Africa-5%, and Latin America-5%

The key players in this market are include Avantium NV (Netherland), Sulzer (Switzerland), AVA Biochem (Switzerland), ALPLA Group (Austria), Swicofil (Switzerland), Origin Materials (US), Toyobo Co., Ltd. (Japan), Danone (France), Mitsui & Co. (Japan), Eastman (US).

Research Coverage

This report segments the market for PEF market on the basis of source,grade, application, end-use industry region, and provides estimations for the overall value of the market across various regions. A detailed analysis of key industry players has been conducted to provide insights into their business overviews, products & services, key strategies, new product launches, expansions, and mergers & acquisition associated with the market for PEF market.

Key benefits of buying this report

This research report is focused on various levels of analysis - industry analysis (industry trends), market ranking analysis of top players, and company profiles, which together provide an overall view on the competitive landscape; emerging and high-growth segments of the PEF market; high-growth regions; and market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

- Analysis of key drivers (Government regulation & policies, increasing demand for PEF for bottle production and the growing demand from the fiber segment, upsurge investment and industry collaboration), restraints (Entrenched infrastructure and dominant market presence of conventional plastic), opportunities (Growing demand for sustainable packaging, diverse application potential) and challenges (high cost related to the production process of PEF) influencing the growth of the PEF market
- Market Penetration: Comprehensive information on PEF market offered by top players in the global PEF market.
- Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product launches in the PEF market.
- Market Development: Comprehensive information about lucrative emerging markets - the report analyzes the markets for PEF market across regions.
- Market Diversification: Exhaustive information about new products, untapped regions, and recent developments in the global PEF market
- Competitive Assessment: In-depth assessment of market shares, strategies, products, and manufacturing capabilities of leading players in the PEF market

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