

Global Bio-based Polyethylene Furanoate (PEF) Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Bio-based Polyethylene Furanoate (PEF) market size was valued at USD million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of % during review period.

Bio-based polyethylene furanyl dicarboxylate (PEF) is a 100% recyclable bio-based polymer produced from renewable raw materials derived from plants. Called the next generation of polyesters, PEF has great potential to replace polyethylene terephthalate (PET), a durable polymer derived from traditional synthetic resources. PEF is still an emerging material and no manufacturer has yet commercialized it. The synthesis technology of PEF and its key monomers is still very challenging and has not yet been industrialized; at the same time, studies of PE structural properties have shown some deficiencies in its performance and modifications are needed to facilitate the processing and application of PEF. PEF offers many advantages over PET, such as superior oxygen and carbon dioxide barriers, so it can keep food and beverages fresher longer by blocking the entry of oxygen and CO₂; it is lightweight, has excellent mechanical and thermal properties, and is potentially cost-competitive on an industrial scale over the long term. However, today there are no PEF bottles per se, and disrupting PET will require not only new material production routes and capabilities, but also new conversion and recycling methods and capabilities.

The major global producers of bio-based polyethylene furanyl dicarboxylate are Avantium, GuoShengTech, Sugarenergy, AVA Biochem AG, Sulzer, Corbion, Leafresource, etc. The top seven producers together account for more than 95% of the market share, with the largest producer being Avantium with 67.86% of the market share. The largest producer is Avantium with 67.86% market share. The global PEF

production regions are mainly located in Europe, China, etc. In terms of product category, food-grade bio-based poly furanyl dicarboxylate has a higher market share of 66.67%, while industrial grade has a lower share. In terms of its applications, food and beverage packaging bottles are its top application area with a market share of 85.716%, followed by films and fibers.

The Global Info Research report includes an overview of the development of the Bio-based Polyethylene Furanoate (PEF) industry chain, the market status of Bottle (Food Grade, Non-Food Grade), Fiber (Food Grade, Non-Food Grade), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Bio-based Polyethylene Furanoate (PEF).

Regionally, the report analyzes the Bio-based Polyethylene Furanoate (PEF) markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Bio-based Polyethylene Furanoate (PEF) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Bio-based Polyethylene Furanoate (PEF) market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Bio-based Polyethylene Furanoate (PEF) industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Kg), revenue generated, and market share of different by Type (e.g., Food Grade, Non-Food Grade).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Bio-based Polyethylene Furanoate (PEF) market.

Regional Analysis: The report involves examining the Bio-based Polyethylene Furanoate (PEF) market at a regional or national level. Report analyses regional factors

such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Bio-based Polyethylene Furanoate (PEF) market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Bio-based Polyethylene Furanoate (PEF):

Company Analysis: Report covers individual Bio-based Polyethylene Furanoate (PEF) manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Bio-based Polyethylene Furanoate (PEF). This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Bottle, Fiber).

Technology Analysis: Report covers specific technologies relevant to Bio-based Polyethylene Furanoate (PEF). It assesses the current state, advancements, and potential future developments in Bio-based Polyethylene Furanoate (PEF) areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Bio-based Polyethylene Furanoate (PEF) market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Bio-based Polyethylene Furanoate (PEF) market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Food Grade

Non-Food Grade

Market segment by Application

Bottle

Fiber

Film

Major players covered

Avantium

GuoShengTech

Sugarenergy

AVA Biochem AG

Sulzer

Corbion

Leafresource

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Bio-based Polyethylene Furanoate (PEF) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Bio-based Polyethylene Furanoate (PEF), with price, sales, revenue and global market share of Bio-based Polyethylene Furanoate (PEF) from 2019 to 2024.

Chapter 3, the Bio-based Polyethylene Furanoate (PEF) competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Bio-based Polyethylene Furanoate (PEF) breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Bio-based Polyethylene Furanoate (PEF) market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Bio-based Polyethylene Furanoate (PEF).

Chapter 14 and 15, to describe Bio-based Polyethylene Furanoate (PEF) sales channel, distributors, customers, research findings and conclusion.

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