

Polyethylene Furanoate (PEF) Market by Application (Bottles, Films, Fibers), End User (Construction, Packaging, Agriculture, and Others), and Region 2024-2032

<https://marketpublishers.com/r/PD5AA24734F8EN.html>

Date: April 2024

Pages: 143

Price: US\$ 3,899.00 (Single User License)

ID: PD5AA24734F8EN

Abstracts

The global polyethylene furanoate (PEF) market size reached US\$ 33.5 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 55.8 Million by 2032, exhibiting a growth rate (CAGR) of 5.67% during 2024-2032. The growing awareness among individuals about utilizing renewable and bio-based materials, favorable government initiatives, and rising application in the packaging industry represent some of the key factors driving the market.

Polyethylene furanoate (PEF) refers to an aromatic polyester that is manufactured from furandicarboxylic acid (FDCA) and polymerized with ethylene glycol. It is cost-effective, non-toxic, and recyclable and offers high tensile strength, saves energy, and can be processed at low temperatures. It has thermal properties, high glass transition temperature, lower melting point, and reduced carbon footprint. It also has a higher barrier to oxygen, carbon dioxide, and water vapor and is a real bio-based alternative to petroleum-based polyethylene terephthalate (PET). It assists in improving packaging sustainability and requires fewer additives in the manufacturing process. It also aids in extending shelf life and maintaining the flavor and appearance of food products. Besides this, it can reduce non-renewable energy use (NREU) and decrease harmful emissions during the production process. As a result, PEF is widely employed in the construction, food and beverage (F&B), packaging, and agriculture industries across the globe.

Polyethylene Furanoate (PEF) Market Trends:

At present, the rising awareness among individuals about the utilization of bio-based

and renewable materials represents one of the key factors supporting the growth of the market. Besides this, the increasing utilization of PEF in the packaging industry to pack alcoholic beverages, milk, soft drinks, fruit juices, tea, and water is propelling the growth of the market. Additionally, there is a rise in the adoption of safe, sustainable, lightweight, and cost-efficient solutions among the masses across the globe. This, coupled with the increasing utilization of PEF to manufacture clothing apparel, diapers, carpets, fabrics, filters, and industrial fibers, is bolstering the growth of the market. Apart from this, governing agencies of various countries are encouraging the adoption of PEF by restricting the consumption of petroleum-based plastic and reducing greenhouse gas (GHG) emissions, which is strengthening the growth of the market. Moreover, the growing adoption of PEF in the food and beverage (F&B) industry to prevent food from oxidation and maintain the quality of a food product is offering a positive market outlook. In addition, the rising health consciousness among consumers about safe drinking water for maintaining good health is contributing to the growth of the market. Furthermore, the increasing adoption of PEF films due to the rising demand for packaged and ready-to-eat (RTE) food products among the masses around the world is strengthening the growth of the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global polyethylene furanoate (PEF) market, along with forecasts at the global, regional, and country levels from 2024-2032. Our report has categorized the market based on application and end user.

Application Insights:

Bottles

Films

Fibers

The report has provided a detailed breakup and analysis of the polyethylene furanoate (PEF) market based on the application. This includes bottles, films, and fibers.

According to the report, bottles represented the largest segment.

End User Insights:

Construction

Packaging

Agriculture

Others

A detailed breakup and analysis of the polyethylene furanoate (PEF) market based on the end user has also been provided in the report. This includes construction, packaging, agriculture, and others.

Regional Insights:

North America

United States

Canada

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others) was the

largest market for polyethylene furanoate (PEF). Some of the factors driving the Asia Pacific polyethylene furanoate (PEF) market included favorable government initiatives, rising investments in bio-based products, presence of numerous key manufacturers in the region, etc.

Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global polyethylene furanoate (PEF) market. Detailed profiles of all major companies have also been provided. Some of the companies covered include AVA Biochem AG, Avantium N.V., Swicofil AG, Toyobo Co. Ltd., etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Key Questions Answered in This Report:

How has the global polyethylene furanoate (PEF) market performed so far, and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global polyethylene furanoate (PEF) market?

What is the impact of each driver, restraint, and opportunity on the global polyethylene furanoate (PEF) market?

What are the key regional markets?

Which countries represent the most attractive polyethylene furanoate (PEF) market?

What is the breakup of the market based on the application?

Which is the most attractive application in the polyethylene furanoate (PEF) market?

What is the breakup of the market based on the end user?

Which is the most attractive end user in the polyethylene furanoate (PEF) market?

What is the competitive structure of the global polyethylene furanoate (PEF) market?

Who are the key players/companies in the global polyethylene furanoate (PEF) market?

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