

Bio Based Polyethylene Terephthalate Market Outlook - Forecast Trends, Market Size, Share and Growth Analysis Report (2025-2034)

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Report description:

The global bio-based polyethylene terephthalate market reached a value of about USD 770.02 Million in 2024. The market is further expected to grow at a CAGR of about 11.50% in the forecast period of 2025-2034 to reach a value of around USD 2286.92 Million by 2034.

North America Leading the Bio Based Polyethylene Terephthalate Market

The United States has been one of the major consumers of bio-PET, where the material is commonly used for the manufacture of bottles, technology, and consumer goods. Increased demand for environmentally friendly packaging in food and beverage, consumer goods, and pharmaceutical industries is expected to drive growth due to increasing concerns about the reduction of greenhouse emissions at domestic level. Bio-based production is a central objective for the European Commission, which is expected to boost the market share of bio-based PET materials. The growth in consumer preference about the use of green packaging combined with technological advancements is expected to fuel North America's market expansion.

The growing importance of sustainable packaging, particularly in China and India, is expected to have a strong impact in market demand over the forecast period. Japan, Canada, and Australia have followed the Kyoto Protocol, which prohibits the use of synthetic polyethylene terephthalate because it causes GHE (Green House Emission). These standards may help to grow the demand for bio-based polyethylene terephthalate.

Bio Based Polyethylene Terephthalate: Market Segmentation

Polyethylene terephthalate is a resin which is formed by a mixture of two monomers, distilled terephthalic acid, and modified ethylene glycol, to create a polymer called polyethylene terephthalate by esterification. Bio-based polyethylene terephthalate is made of MEG (monoethylene glycol), a sugar cane ethanol product, and distilled PTA (terephthalic acid), a chemical-based crude

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oil product. Because of its lightweight and biodegradable nature, bio-based polyethylene terephthalate is used in the packaging of food products, soft drinks, alcoholic beverages, cosmetics, pharmaceutical products, and edible oils.

The product finds wide applications in the following:

- Bottles
- Sheet and Foam
- Carry Bags and Pouches
- Pressure Sensitive Adhesive Tape
- Others

The end-uses of the product include the following:

- Food Industry
- Beverage
- Consumer Goods
- Automotive
- Pharmaceuticals
- Others

Market Breakup by Region:

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Rising Demand for Bio-Friendly Products Bolstering the Market Growth

The rising use of eco-friendly goods across the globe and strict environmental regulations to encourage the use of bio-friendly products in industries have led to an increase in demand for bio-based polyethylene terephthalate materials. Progress in manufacturing technology and the performance of the research and development sector in the chemical and materials sector across major regions of the bio-based polyethylene terephthalate industry is expected to boost bio-based PET consumption. The growth of the market for bio-based polyethylene terephthalate is anticipated to be focused on rising demand in various industries including food and beverage, and a strict regulatory framework to reduce carbon emissions. As a result, government policies to encourage the use of biodegradable goods have resulted in the use of bio-based polyethylene terephthalate materials. In addition, advances in technology and research and a shift in focus towards the use of green plastics are expected to drive the growth of the market for bio-based polyethylene terephthalate.

Key Industry Players in the Global Bio Based Polyethylene Terephthalate Market

The report gives a detailed analysis of the following key players in the global bio-based polyethylene terephthalate market, covering their competitive landscape, capacity, and latest developments like mergers, acquisitions, and investments, expansions of capacity, and plant turnarounds:

- Toray Industries, Inc.

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- Toyota Tsusho Corporation
- Braskem Inc.
- Virent Inc
- The Coca-Cola Company
- Others

The comprehensive EMR report provides an in-depth assessment of the market based on the Porter's five forces model along with giving a SWOT analysis.

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