

Global Polyethylene Naphthalate Market Size Study, by End Use (Beverage Bottling, Electronics, Packaging, Rubber Tyres, Others), Manufacturing Process (Acid and Ester), and Regional Forecasts 2022-2032

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Abstracts

The global polyethylene naphthalate (PEN) market, valued at approximately USD 1.21 billion in 2023, is projected to exhibit a compound annual growth rate (CAGR) of 6.10% during the forecast period, reaching USD 2.06 billion by 2032. PEN, a high-performance polyester, is renowned for its superior barrier properties, thermal resistance, and mechanical strength. These attributes position it as a vital material across diverse applications, including beverage bottling, packaging, and electronics, while its role in rubber tyre reinforcements and advanced manufacturing processes continues to expand.

The rising demand for lightweight, durable materials in the packaging and beverage bottling industries is a critical growth driver for the PEN market. Growing environmental awareness has also spurred interest in recyclable and sustainable polymers, favoring PEN's adoption. Moreover, its exceptional dielectric properties and thermal stability render it indispensable in electronic components and flexible display applications. However, challenges such as high production costs and limited availability of raw materials may restrain market growth in certain regions.

Technological innovations in PEN production methods, including advancements in acid and ester processes, have enabled manufacturers to optimize costs while maintaining material performance. The incorporation of PEN in premium food-grade packaging solutions and its increasing use in multilayered barriers further highlight its potential. Additionally, the automotive sector is leveraging PEN's properties to enhance the

durability and efficiency of tyre reinforcements, underscoring its expanding market footprint.

Regionally, Asia-Pacific dominates the global PEN market, bolstered by thriving packaging and electronics industries in countries like China, Japan, and South Korea. North America follows closely, driven by the region's robust beverage bottling sector and rising investments in advanced materials. Europe presents significant growth opportunities, particularly in the high-end packaging segment and automotive applications, while Latin America and the Middle East & Africa showcase untapped potential due to rising industrialization and increased focus on sustainable packaging solutions.

Major market players included in this report are:

DuPont Teijin Films

DAK Americas LLC

Toray Industries, Inc.

SK Chemicals

Mitsubishi Chemical Corporation

Kolon Industries, Inc.

3M Company

Nan Ya Plastics Corporation

Polyonics, Inc.

UFlex Limited

Far Eastern New Century Corporation

Indorama Ventures Public Company Limited

JBF Industries Ltd.

Eastman Chemical Company

Sumitomo Chemical Co., Ltd.

The detailed segments and sub-segments of the market are explained below:

By End Use:

Beverage Bottling

Electronics

Packaging

Rubber Tyres

Others

By Manufacturing Process:

Acid

Ester

By Region:

North America:

U.S.

Canada

Europe:

UK

Germany

France

Spain

Italy

Rest of Europe

Asia-Pacific:

China

India

Japan

Australia

South Korea

Rest of Asia-Pacific

Latin America:

Brazil

Mexico

Middle East & Africa:

Saudi Arabia

South Africa

Rest of Middle East & Africa

Years considered for the study are as follows:

Historical year: 2022

Base year: 2023

Forecast period: 2024 to 2032

Key Takeaways:

Comprehensive market forecasts segmented by end use, manufacturing process, and region for the next decade.

Insightful regional analysis identifying growth trends and opportunities across major markets.

Competitive intelligence with detailed profiles of leading players and their strategies.

Demand and supply-side perspectives to guide stakeholder decision-making.

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(2023)

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