

Global Recycled Terephthalic Acid Market Size Study, by Market (Hydrolysis, Pyrolysis), by Application (Fiber, Films, Resins), by End-use Industry (Textiles, Automotive, Construction, Packaging), and Regional Forecasts 2022-2032

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Abstracts

The global recycled terephthalic acid market, valued at approximately USD 2.24 billion in 2023, is projected to expand at a steady CAGR of 4.4% from 2024 to 2032, reaching a significant USD 3.30 billion by the end of the forecast period. Recycled terephthalic acid (r-TPA) has emerged as a critical component in the sustainable materials market, driven by its extensive applications in industries such as textiles, automotive, construction, and packaging. Its production aligns with global environmental goals, promoting waste reduction and resource efficiency by recycling PET plastics and other waste streams.

The growing awareness about circular economy principles and stringent regulations on plastic waste disposal have amplified the adoption of r-TPA. The market is further buoyed by the increasing demand for eco-friendly alternatives in the manufacturing of fibers, resins, and films. Technologies such as hydrolysis and pyrolysis are being employed to convert post-consumer PET waste into r-TPA, ensuring high-purity outputs suitable for diverse industrial applications.

Despite these promising prospects, the market faces challenges in the form of high costs associated with advanced recycling technologies and inconsistent waste collection systems, particularly in developing regions. However, significant investments in R&D and collaborative initiatives between governments and private stakeholders are expected to mitigate these barriers, enhancing supply chain efficiencies. Innovations in processing technologies and the rising integration of r-TPA in automotive and

construction materials underscore the market's potential for growth and transformation.

Regionally, Asia-Pacific leads the global recycled terephthalic acid market, driven by robust textile manufacturing in countries like China and India and the growing emphasis on sustainability. North America and Europe continue to witness steady growth, supported by stringent environmental policies and increased adoption of recycled materials in packaging and automotive applications. These regions also benefit from well-established waste management infrastructures and proactive government initiatives aimed at reducing plastic waste.

Major market players included in this report are:

Indorama Ventures Public Company Limited

Far Eastern New Century Corporation

Alpek S.A.B. de C.V.

Zhejiang Hengyi Group Co., Ltd.

Lotte Chemical Corporation

Plastipak Holdings, Inc.

JBF Industries Limited

Reliance Industries Limited

Srichakra Polyplast (India) Pvt Ltd

Biffa plc

Verdeco Recycling Inc.

Loop Industries, Inc.

Garbo S.r.l.

VTT Technical Research Centre of Finland Ltd

PETCO

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

By Market:

Hydrolysis

Pyrolysis

By Application:

Fiber

Films

Resins

By End-use Industry:

Textiles

Automotive

Construction

Packaging

By Region:

North America:

U.S.

Canada

Europe:

UK

Germany

France

Spain

Italy

Rest of Europe (ROE)

Asia-Pacific:

China

India

Japan

South Korea

Australia

Rest of Asia-Pacific (RoAPAC)

Latin America:

Brazil

Mexico

Rest of Latin America

Middle East & Africa:

Saudi Arabia

South Africa

Rest of Middle East & Africa (RoMEA)

Years considered for the study are as follows:

Historical year: 2022

Base year: 2023

Forecast period: 2024 to 2032

Key Takeaways:

Market estimates & forecasts for 10 years from 2022 to 2032.

Annualized revenues and regional-level analysis for each market segment.

Comprehensive geographical analysis with country-level market insights.

Detailed segmentation of the market with revenue projections for each category.

Competitive landscape featuring major players and their strategic initiatives.

Analysis of market dynamics, including growth drivers, challenges, and opportunities.

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