

Recycled Terephthalic Acid Market Forecasts to 2030 – Global Analysis by Type (Mechanical Recycling and Chemical Recycling), Source (Post-Consumer Recycled (PCR) and Post-Industrial Recycled (PIR)), Application, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Recycled Terephthalic Acid Market is accounted for \$2.9 billion in 2024 and is expected to reach \$4.2 billion by 2030 growing at a CAGR of 6.4% during the forecast period. Recycled Terephthalic Acid (rPTA) is a sustainable substance made by recycling post-consumer polyethylene terephthalate (PET) waste, such as discarded plastic bottles and packaging. Terephthalic acid is recovered from PET waste by breaking it down; this component is subsequently refined and utilized again to create new PET goods. rPTA provides an environmentally benign substitute for virgin terephthalic acid (PTA) in the production of fibers for textiles, plastics, and packaging materials.

Market Dynamics:

Driver:

Growing Demand for Sustainable Packaging

The market for recycled terephthalic acid (rPTA) is being driven by the increasing need for environmentally friendly packaging as businesses look for sustainable substitutes for virgin plastics. Originating from post-consumer PET bottles, rPTA is finding more and more usage in packaging, especially in the food and beverage sector. This change is in line with international environmental objectives and legislative pressure to cut back on plastic trash. The market is expanding as a result of rising consumer awareness of

environmental effects and the resulting demand for recycled materials like rPTA.

Restraint:

High Initial Investment

The high initial investment is a key barrier to the growth of the (rPTA) industry. For many businesses, the expense of establishing cutting-edge recycling technology, infrastructure, and research and development might be unaffordable. This cost burden may discourage new competitors and restrict the growth of recycling operations. The adoption of rPTA in the textile and packaging sectors may also be slowed down by the lengthy payback time linked to these investments, which may deter potential investors, thus it limits growth of the market.

Opportunity:

Cost-Effectiveness

Cost-effectiveness is a major driver in the recycled terephthalic acid (rPTA) business, since it offers considerable savings over virgin PET manufacture. Manufacturers find rPTA to be a desirable alternative due to its lower production costs, particularly in light of growing environmental concerns and laws requiring sustainable operations. As businesses look for more affordable, environmentally friendly options, this change increases demand for recycled materials in sectors including textiles, packaging, and automotive, which propels the rPTA market's expansion.

Threat:

Quality Concerns

Concerns over quality substantially impede the market expansion for (rPTA). Recycled materials may not be as widely used in high-end applications as virgin PTA due to differences in their performance and purity, particularly in the textile and packaging sectors. The market's growth is eventually slowed down and rPTA's overall competitiveness as a sustainable alternative is impacted by inconsistent quality, which can also result in higher manufacturing costs, less consumer confidence, and regulatory issues, which hinders the market expansion.

Covid-19 Impact:

The COVID-19 pandemic disrupted the recycled terephthalic acid (rPTA) market by causing supply chain interruptions, factory shutdowns, and reduced demand in key sectors like textiles and packaging. Economic slowdowns and focus on essential goods also led to decreased production of rPTA. However, the pandemic heightened awareness of sustainability, potentially driving long-term growth as industries seek more cost-effective and eco-friendly materials post-pandemic.

The fiber segment is expected to be the largest during the forecast period

The fiber segment is expected to be the largest during the forecast period as fiber manufacture frequently employs rPTA as a significant raw material, which improves recycling efficiency. The demand for environmentally friendly fibers manufactured from recycled PET, like rPTA, is rising in tandem with sustainability trends. This encourages more recycling and trash reduction, which propels the rPTA market's expansion and is in line with customer preferences for eco-friendly products and industry rules meant to lower carbon footprints.

The chemical recycling segment is expected to have the highest CAGR during the forecast period

The chemical recycling segment is expected to have the highest CAGR during the forecast period because this procedure promotes sustainability objectives, lowers dependency on raw resources, and increases recycling efficiency. Chemical recycling technologies are growing as a result of regulatory restrictions and growing customer demand for eco-friendly products, which is promoting a circular economy. This propels the rPTA market's expansion, especially for applications in the automotive, packaging, and textile sectors.

Region with largest share:

North America is projected to hold the largest market share during the forecast period due to rising demand for sustainable packaging solutions, increased regulatory pressure on plastic waste reduction, and a growing emphasis on circular economy activities. Improvements in recycling technology and consumer knowledge of the effects on the environment also play a big role. To lessen their carbon footprint, major companies in the packaging and textile industries are implementing rPTA, which will accelerate regional market expansion.

Region with highest CAGR:

Asia Pacific is projected to witness the highest CAGR over the forecast period because of rising environmental consciousness, stricter recycling laws, and a growing market for sustainable goods. The use of rPTA in manufacturing is aided by the increase in attempts to control plastic waste and the move toward circular economy principles. The region's market is also growing as a result of large investments in recycling technology, government incentives, and the development of the textile and packaging sectors.

Key players in the market

Some of the key players in Recycled Terephthalic Acid market include Indorama Ventures Public Company Limited, Alpek S.A.B. de C.V., Teijin Limited, Far Eastern New Century Corporation, Reliance Industries Limited, Polyquest, Inc., Unifi, Inc., BASF SE, Toray Industries, Inc., Loop Industries, Plastipak Holdings, Inc., JBF Industries Ltd., Li Peng Enterprise Co., Ltd., DAK Americas LLC, Kingfa Sci. & Tech. Co., Ltd., Visy Industries, Jeplan, Inc., Lotte Chemical Corporation and CarbonLITE Industries, LLC.

Key Developments:

In July 2024, BASF launched Haptex 4.0, an innovative polyurethane solution for the production of synthetic leather that is 100% recyclable. Synthetic leather made with Haptex 4.0 and polyethylene terephthalate (PET) fabric can be recycled together using an innovative formulation and recycling technical pathway without the need of layer peel-off process.

In June 2024, CPGC and BASF signed framework agreement on actual ship application of Onboard Carbon Capture System to steer the low-carbon transformation and foster the sustainable development of the shipping industry.

In May 2024, BASF expanded its biomass balance offering to include BMBCert™ 1,4-butanediol(BDO), tetrahydrofuran(THF), polytetrahydrofuran and 3-(dimethylamino)propylamine (DMAPE). In addition to the production site in Ludwigshafen, Germany, the site in Geismar, Louisiana, has also achieved certifications for all these products.

Types Covered:

Mechanical Recycling

Chemical Recycling

Sources Covered:

Post-Consumer Recycled (PCR)

Post-Industrial Recycled (PIR)

Applications Covered:

Fiber

Food & Beverage Containers

Films and Sheets

Straps

Other Applications

End Users Covered:

Textile

Packaging

Consumer Goods

Automotive

Construction

Other End Users

Regions Covered:**North America**

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free

customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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