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Recycled PET Market Forecasts to 2032 – Global Analysis By Type (Flakes and Chips), Grade, Source, Color, Packaging Type, Recycling Process, Application, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Recycled PET Market is accounted for $10.4 billion in 2025 and is expected to reach $17.6 billion by 2032 growing at a CAGR of 7.7% during the forecast period. Recycled PET (polyethylene terephthalate) is a type of plastic material obtained from processing and reusing post-consumer or post-industrial PET products like bottles and containers. The recycled PET material is cleaned, melted, and reformed into flakes, fibers, or pellets to manufacture new products. Recycling PET reduces waste, conserves resources, and lowers environmental impact compared to virgin PET production.

According to a report published by Press Information Bureau of India in December 2022, the Indian government has implemented Technology Upgradation Fund Scheme (TUFS) to promote the establishment of plastic recycling plants in the country.

Market Dynamics:

Driver:

Growing environmental concerns favoring recycling

Escalating environmental concerns and global regulatory mandates are driving the adoption of recycled PET (rPET) across various industries. Increased public awareness around plastic pollution and carbon emissions has intensified the push toward circular economies. Government initiatives promoting plastic recovery and brand-led

sustainability pledges have further bolstered demand for rPET. Moreover, multinational corporations are adopting closed-loop recycling models, encouraging consistent feedstock recovery and recycled content use in packaging, apparel, and industrial applications, ultimately accelerating rPET market growth.

Restraint:

Fluctuating quality of recycled material

The inconsistent quality of recycled PET remains a major market restraint, affecting downstream product performance and limiting high-end application viability. Variability arises from contamination, improper sorting, and mixed-color feedstock, complicating processing and reducing fiber uniformity. These quality concerns deter adoption by industries requiring stringent material standards, such as food-grade packaging and technical textiles. Moreover, differences in regional recycling practices and lack of harmonized quality benchmarks create uncertainty for manufacturers relying on consistent rPET input.

Opportunity:

Increasing demand in packaging and textile sectors

Recycled PET is gaining substantial momentum across packaging and textile sectors, presenting a compelling growth opportunity. In packaging, particularly food and beverage containers, rPET offers a sustainable alternative aligned with regulatory compliance and corporate ESG targets. Simultaneously, the textile industry is integrating rPET into fashion, home furnishings, and performance wear to meet rising eco-conscious consumer demand. Innovations in processing technology have improved material aesthetics and functionality, paving the way for broader rPET utilization across value-added segments.

Threat:

Competition from virgin PET producers

The rPET market faces strong competition from virgin PET manufacturers, particularly during periods of low oil prices that drive down virgin resin costs. This price disparity challenges the cost-effectiveness of recycled PET, especially for price-sensitive end users. Virgin PET also offers superior and consistent quality, making it preferable in high-spec applications. Additionally, established supply chains and economies of scale in virgin production pose strategic hurdles for recyclers aiming to scale up and compete on volume and pricing.

Covid-19 Impact:

The pandemic disrupted PET recycling operations worldwide due to lockdowns, labor shortages, and reduced waste collection efficiency. Demand for rPET declined temporarily in sectors like apparel and hospitality, although demand for plastic packaging surged due to hygiene concerns. However, COVID-19 also reignited sustainability discourse, prompting brands to re-evaluate supply chains and accelerate post-pandemic green recovery strategies. Long-term, the crisis served as a wake-up call, leading to renewed investments in localized recycling infrastructure and circular packaging models.

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

The flakes segment is expected to account for the largest market share during the forecast period, owing to its wide applicability, ease of processing, and availability. Recycled PET flakes serve as the primary input for fiber production, food-grade containers, strapping, and non-woven fabrics. Their cost-efficiency and compatibility with existing manufacturing lines make them the preferred intermediate across industries. Strong demand from packaging and textiles, coupled with increasing investments in flake-cleaning technologies, will further support this segment’s dominance.

The post-consumer resin segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the post-consumer resin segment is predicted to witness the highest growth rate impelled by, by surging demand for consumer-brand recycled packaging and apparel. PCR offers a sustainable solution for closed-loop recycling and aligns with mandates for recycled content in products. Brands are increasingly sourcing PCR to meet environmental targets and improve transparency. Innovations in advanced sorting, washing, and decontamination processes are enhancing PCR quality, enabling its use in high-purity applications and boosting segment growth.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share, driven by the region's expansive PET production base, cost-effective labor, and rapidly growing textile and packaging industries. Countries like China, India, and Indonesia are making strategic investments in PET recycling plants and circular economy frameworks. Government initiatives encouraging sustainable material use and increasing rPET exports also contribute to the region's dominance. The abundant availability of post-consumer PET waste further strengthens supply chain capabilities.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR attributed to aggressive sustainability policies, growing corporate responsibility, and rising consumer preference for eco-friendly products. Legislative mandates promoting recycled content and extended producer responsibility are driving investments in PET recycling infrastructure. Collaborations between recyclers and brand owners are enhancing supply chain efficiency. Additionally, technological advancements in mechanical and chemical recycling are enabling higher-quality rPET production, supporting the region's rapid and resilient market expansion.

Key players in the market

Some of the key players in Recycled PET Market include Indorama Ventures Public Company Limited, Clear Path Recycling, LLC, Placon, Plastipak Holdings, Inc., Evergreen Plastics, Loop Industries, Inc., CarbonLite Industries, LLC, Phoenix Technologies International LLC, Alpek SAB de CV, M&G Chemicals, Amcor Ltd, Biffa plc, PolyQuest, Far Eastern New Century Corporation, Verdeco Recycling Inc., Zhejiang Anshun Pettechs Fibre Co. Ltd., MBA Polymers, KW Plastics, SUEZ Recycling & Recovery, and Veolia.

Key Developments:

In March 2024, Hach introduced the new BioTector B7000 Online ATP Monitoring System for real-time detection of microbial contamination in water treatment processes. It provides rapid results in 5-10 minutes.

In March 2024, Thermo Fisher launched the new DionexInuvion Ion Chromatography system designed for simplified and versatile ion analysis for environmental, industrial and municipal water testing labs.

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In February 2024, Thermo Fisher announced the launch of its 'Make in India' Class 1 analyser-based Continuous Ambient Air Quality Monitoring System (CAAQMS) to support India's environmental monitoring efforts.

Types Covered:

- Flakes
- Chips

Grades Covered:

- Post-Consumer Resin
- Post-Commercial Resin
- Post-Industrial Resin

Sources Covered:

- Containers
- Clamshells

Colors Covered:

- Clear
- Colored

Packaging Types Covered:

- Bottles & Jars
- Trays

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- Pouches & Sachets
- Films
- Containers & Tubs

Recycling Processes Covered:

- Mechanical Recycling
- Chemical Recycling

Applications Covered:

- Food Bottles
- Non-Food Bottles
- Sheets
- Strapping
- Other Applications

End Users Covered:

- Beverage
- Healthcare
- Personal Care
- Retail & E-Commerce
- Industrial Packaging

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- 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 2024, 2025, 2026, 2028, and 2032
- 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

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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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