

Polyethylene Terephthalate Catalyst Market Size, Share & Trends Analysis Report By Product (Antimony-Based, Aluminum-based, Titanium-based, Germanium-based), By Application (Packaging, Textile & Apparel), By Region, And Segment Forecasts, 2025 - 2033

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Abstracts

Polyethylene Terephthalate Catalyst Market Summary

The global polyethylene terephthalate catalyst market size was estimated at USD 784.4 million in 2024 and is projected to reach USD 1237.6 million by 2033, growing at a CAGR of 5.3% from 2025 to 2033, driven by the sustained growth in polyethylene terephthalate (PET) bottle and packaging production, particularly for water and soft beverages, owing to PET's lightweight, safe, cost-effective, and recyclable nature. As global consumption of plastic bottles rises, increasing environmental concerns over single-use plastics have accelerated the adoption of more sustainable PET production processes.

PET catalysts play a critical role in improving polymer quality, production efficiency, and recyclability, enabling manufacturers to meet both regulatory standards and consumer expectations. A key market driver is the shift toward recycled PET (R-PET) and bio-based PET, supported by technological advancements in catalyst formulations that enhance polymer performance while reducing environmental impact. Consumer demand for transparency, product safety, and recognizability in packaging, especially in food contact applications, further boosts the need for high-quality PET resins, which rely on efficient and specialized catalysts.

Additionally, PET's superior barrier and mechanical properties, coupled with ongoing innovation in recycling technologies (such as converting PET bottles into textile fibers), reinforce its position in the packaging sector. Strategic investments in catalyst technology to improve recyclability, reduce energy consumption, and lower greenhouse gas emissions are increasingly important. Growing consumer and stakeholder awareness, along with global educational campaigns promoting effective recycling, are expected to sustain long-term demand for PET catalysts in both virgin and recycled PET production.

In the automotive sector, polyethylene terephthalate (PET) derived from PET catalyst technology is extensively used in seat cover applications due to its exceptional performance and cost-effectiveness. Modern automobile seats are typically manufactured in a three-layer structure: the top layer being the seat cover, a middle foam layer, and a bottom scrim backing, all bonded together with adhesive layers. PET is the dominant fiber used in woven, warp-knitted, or circular-knitted seat cover fabrics, with its adoption reaching nearly 95% since the late 1990s. This popularity is attributed to PET's high tensile strength and modulus, excellent resistance to abrasion, UV radiation, and heat, superior anti-aging properties, shape retention, dimensional stability, and low production cost.

While PET is often used in its pure form, it may also be blended with wool for enhanced properties. Additional advantages include high tear resistance, easy maintenance, and wrinkle resistance, although its low moisture absorption (~0.4%) can reduce thermal comfort in hot climates.

In the polyethylene terephthalate (PET) catalyst market, aluminum-based catalysts are emerging as a promising alternative to traditional antimony- and titanium-based options, driven by their lower cost, lightweight nature, and minimal environmental and health impact. Sharing the same active sites as trivalent metals, these catalysts garnered significant research interest for their role in PET polycondensation. The shift toward aluminum-based catalysts is supported by growing environmental regulations and the industry's push to replace antimony due to toxicity concerns.

However, restraint in the polyethylene terephthalate (PET) catalyst market is the stringent environmental and health regulations imposed on antimony-based catalysts. Antimony trioxide, one of the most used catalysts in PET production, comes under increasing regulatory scrutiny due to concerns over its potential toxicity and environmental persistence.

Global Polyethylene Terephthalate Catalyst Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2018 to 2033. For this study, Grand View Research has segmented the global polyethylene terephthalate catalyst market report based on product, application, and region

Product Outlook (Volume, Kilotons; Revenue, USD Million, 2018 - 2033)

Antimony-Based

Aluminum

Titanium-based

Germanium-based

Other Catalysts

Application Outlook (Volume, Kilotons; Revenue, USD Million, 2018 - 2033)

Packaging

Textile & Apparel

Automotive

Medical

Other Applications

Regional Outlook (Volume, Kilotons; Revenue, USD Million, 2018 - 2033)

North America

U.S.

Canada

Mexico

Europe

Germany

Italy

France

UK

Spain

Asia Pacific

China

India

Japan

South Korea

Latin America

Brazil

Argentina

Middle East & Africa

Saudi Arabia

South Africa

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Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market Segmentation & Scope
- 1.2. Market Definition
- 1.3. Information Procurement
 - 1.3.1. Purchased Database
 - 1.3.2. GVR's Internal Database
 - 1.3.3. Aluminum-based Sources & Third-Party Perspectives
 - 1.3.4. Antimony-Based Research
- 1.4. Information Analysis
 - 1.4.1. Data Analysis Models
- 1.5. Market Formulation & Data Visualization
- 1.6. Data Validation & Publishing

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Market Snapshot
- 2.2. Segment Snapshot
- 2.3. Competitive Landscape Snapshot

CHAPTER 3. POLYETHYLENE TEREPHTHALATE (PET) CATALYST MARKET VARIABLES, TRENDS & SCOPE

- 3.1. Market Lineage Outlook
 - 3.1.1. Polyethylene Terephthalate (PET) Catalyst Market Outlook
- 3.2. Industry Value Chain Analysis
 - 3.2.1. Raw Material Outlook
 - 3.2.2. Manufacturing Trends
 - 3.2.3. Sales Channel Analysis
- 3.3. Price Trend Analysis, 2018 - 2033
- 3.4. Market Dynamics
 - 3.4.1. Market Driver Analysis
 - 3.4.2. Market Restraint Analysis
 - 3.4.3. Industry Challenges
 - 3.4.4. Industry Opportunities
- 3.5. Industry Analysis Tools
 - 3.5.1. Porter's Five Forces Analysis

3.5.2. Macro-Environmental Analysis

CHAPTER 4. POLYETHYLENE TEREPHTHALATE (PET) CATALYST MARKET: PRODUCT ESTIMATES & TREND ANALYSIS

4.1. Product Movement Analysis & Market Share, 2024 & 2033

4.2. Antimony Based

4.2.1. Antimony Based Market Estimates & Forecasts, 2018 To 2033 (Kilotons) (USD Million)

4.3. Aluminum-based

4.3.1. Aluminum Based Market Estimates And Forecasts, 2018 - 2033 (Kilotons) (USD Million)

4.4. Titanium-based

4.4.1. Titanium Based Market Estimates And Forecasts, 2018 - 2033 (Kilotons) (USD Million)

4.5. Germanium-based

4.5.1. Germanium-based Polyethylene Terephthalate (PET) catalyst market Estimates And Forecasts, 2018 - 2033 (Kilotons) (USD Million)

4.6. Other Catalysts

4.6.1. Other Catalysts Polyethylene Terephthalate (PET) catalyst market Estimates And Forecasts, 2018 - 2033 (Kilotons) (USD Million)

CHAPTER 5. POLYETHYLENE TEREPHTHALATE (PET) CATALYST MARKET: APPLICATION ESTIMATES & TREND ANALYSIS

5.1. Application Movement Analysis & Market Share, 2024 & 2033

5.2. Packaging

5.2.1. Packaging Polyethylene Terephthalate (PET) catalyst market Estimates & Forecasts, 2018 To 2033 (Kilotons) (USD Million)

5.3. Textile & Apparel

5.3.1. Textile & Apparel Polyethylene Terephthalate (PET) catalyst market Estimates And Forecasts, 2018 - 2033 (Kilotons) (USD Million)

5.4. Automotive

5.4.1. Automotive Polyethylene Terephthalate (PET) catalyst market Estimates And Forecasts, 2018 - 2033 (Kilotons) (USD Million)

5.5. Medical

5.5.1. Medical Polyethylene Terephthalate (PET) catalyst market Estimates And Forecasts, 2018 - 2033 (Kilotons) (USD Million)

5.6. Other Applications

5.6.1. Other Applications Polyethylene Terephthalate (PET) catalyst market Estimates And Forecasts, 2018 - 2033 (Kilotons) (USD Million)

CHAPTER 6. POLYETHYLENE TEREPHTHALATE (PET) CATALYST MARKET: REGIONAL ESTIMATES & TREND ANALYSIS

6.1. Regional Movement Analysis & Market Share, 2024 & 2033

6.2. North America

6.2.1. North America Polyethylene Terephthalate (PET) Catalyst Estimates & Forecast, 2018 - 2033 (Kilotons) (USD Million)

6.2.2. U.S.

6.2.2.1. Key Country Dynamics

6.2.2.2. U.S. Polyethylene Terephthalate (PET) Catalyst Market Estimates & Forecast, 2018 - 2033 (Kilotons) (USD Million)

6.2.3. Canada

6.2.3.1. Key Country Dynamics

6.2.3.2. Canada Polyethylene Terephthalate (PET) Catalyst Market Estimates & Forecast, 2018 - 2033 (Kilotons) (USD Million)

6.2.4. Mexico

6.2.4.1. Key Country Dynamics

6.2.4.2. Mexico Polyethylene Terephthalate (PET) Catalyst Market Estimates & Forecast, 2018 - 2033 (Kilotons) (USD Million)

6.3. Europe

6.3.1. Europe Polyethylene Terephthalate (PET) Catalyst Market Estimates & Forecast, 2018 - 2033 (Kilotons) (USD Million)

6.3.2. Germany

6.3.2.1. Key Country Dynamics

6.3.2.2. Germany Polyethylene Terephthalate (PET) Catalyst Market Estimates & Forecast, 2018 - 2033 (Kilotons) (USD Million)

6.3.3. UK

6.3.3.1. Key Country Dynamics

6.3.3.2. UK Polyethylene Terephthalate (PET) Catalyst Market Estimates & Forecast, 2018 - 2033 (Kilotons) (USD Million)

6.3.4. Italy

6.3.4.1. Key Country Dynamics

6.3.4.2. Italy Polyethylene Terephthalate (PET) Catalyst Market Estimates & Forecast, 2018 - 2033 (Kilotons) (USD Million)

6.3.5. France

6.3.5.1. Key Country Dynamics

6.3.5.2. France Polyethylene Terephthalate (PET) Catalyst Market Estimates & Forecast, 2018 - 2033 (Kilotons) (USD Million)

6.3.6. Spain

6.3.6.1. Key Country Dynamics

6.3.6.2. Spain Polyethylene Terephthalate (PET) Catalyst Market Estimates & Forecast, 2018 - 2033 (Kilotons) (USD Million)

6.4. Asia Pacific

6.4.1. Asia Pacific Polyethylene Terephthalate (PET) Catalyst Market Estimates & Forecast, 2018 - 2033 (Kilotons) (USD Million)

6.4.2. China

6.4.2.1. Key Country Dynamics

6.4.2.2. China Polyethylene Terephthalate (PET) Catalyst Market Estimates & Forecast, 2018 - 2033 (Kilotons) (USD Million)

6.4.3. India

6.4.3.1. Key Country Dynamics

6.4.3.2. India Polyethylene Terephthalate (PET) Catalyst Market Estimates & Forecast, 2018 - 2033 (Kilotons) (USD Million)

6.4.4. Japan

6.4.4.1. Key Country Dynamics

6.4.4.2. Japan Polyethylene Terephthalate (PET) Catalyst Market Estimates & Forecast, 2018 - 2033 (Kilotons) (USD Million)

6.4.5. South Korea

6.4.5.1. Key Country Dynamics

6.4.5.2. South Korea Polyethylene Terephthalate (PET) Catalyst Market Estimates & Forecast, 2018 - 2033 (Kilotons) (USD Million)

6.5. Latin America

6.5.1. Latin America Polyethylene Terephthalate (PET) Catalyst Market Estimates & Forecast, 2018 - 2033 (Kilotons) (USD Million)

6.5.2. Brazil

6.5.2.1. Key Country Dynamics

6.5.2.2. Brazil Polyethylene Terephthalate (PET) Catalyst Market Estimates & Forecast, 2018 - 2033 (Kilotons) (USD Million)

6.5.3. Argentina

6.5.3.1. Key Country Dynamics

6.5.3.2. Argentina Polyethylene Terephthalate (PET) Catalyst Market Estimates & Forecast, 2018 - 2033 (Kilotons) (USD Million)

6.6. Middle East & Africa

6.6.1. Middle East & Africa Polyethylene Terephthalate (PET) Catalyst Market Estimates & Forecast, 2018 - 2033 (Kilotons) (USD Million)

6.6.2. Saudi Arabia

6.6.2.1. Key Country Dynamics

6.6.2.2. Saudi Arabia Polyethylene Terephthalate (PET) Catalyst Market Estimates & Forecast, 2018 - 2033 (Kilotons) (USD Million)

6.6.3. South Africa

6.6.3.1. Key Country Dynamics

6.6.3.2. South Africa Polyethylene Terephthalate (PET) Catalyst Market Estimates & Forecast, 2018 - 2033 (Kilotons) (USD Million)

CHAPTER 7. POLYETHYLENE TEREPHTHALATE (PET) CATALYST MARKET - COMPETITIVE LANDSCAPE

7.1. Recent Developments & Impact Analysis, By Key Market Participants

7.2. Company Categorization

7.3. Company Market Share/Position Analysis, 2024

7.4. Company Heat Map Analysis

7.5. Regional Market Analysis

7.6. Strategy Mapping

7.7. Company Profiles

7.7.1. TOYOBO

7.7.1.1. Participant's Overview

7.7.1.2. Financial Performance

7.7.1.3. Product Benchmarking

7.7.1.4. Recent Developments

7.7.2. Teijin

7.7.2.1. Participant's Overview

7.7.2.2. Financial Performance

7.7.2.3. Product Benchmarking

7.7.2.4. Recent Developments

7.7.3. Catalytic Technologies Ltd

7.7.3.1. Participant's Overview

7.7.3.2. Financial Performance

7.7.3.3. Product Benchmarking

7.7.3.4. Recent Developments

7.7.4. Iwatani Corporation

7.7.4.1. Participant's Overview

7.7.4.2. Financial Performance

7.7.4.3. Product Benchmarking

7.7.4.4. Recent Developments

- 7.7.5. Evonik Industries AG
 - 7.7.5.1. Participant's Overview
 - 7.7.5.2. Financial Performance
 - 7.7.5.3. Product Benchmarking
 - 7.7.5.4. Recent Developments
- 7.7.6. Wellman Introduces
 - 7.7.6.1. Participant's Overview
 - 7.7.6.2. Financial Performance
 - 7.7.6.3. Product Benchmarking
 - 7.7.6.4. Recent Developments
- 7.7.7. Indorama Ventures
 - 7.7.7.1. Participant's Overview
 - 7.7.7.2. Financial Performance
 - 7.7.7.3. Product Benchmarking
 - 7.7.7.4. Recent Developments
- 7.7.8. SAKAI CHEMICAL INDUSTRY CO.,LTD.
 - 7.7.8.1. Participant's Overview
 - 7.7.8.2. Financial Performance
 - 7.7.8.3. Product Benchmarking
 - 7.7.8.4. Recent Developments
- 7.7.9. Amerex Hubei Decon Polyester Co., Ltd.
 - 7.7.9.1. Participant's Overview
 - 7.7.9.2. Financial Performance
 - 7.7.9.3. Product Benchmarking
 - 7.7.9.4. Recent Developments
- 7.7.10. NAN YA PLASTICS CORPORATION
 - 7.7.10.1. Participant's Overview
 - 7.7.10.2. Financial Performance
 - 7.7.10.3. Product Benchmarking
 - 7.7.10.4. Recent Developments

List Of Tables

LIST OF TABLES

Table 1	List of Potential End-Users
Table 2	Regulatory Framework, by Regions
Table 3	List of Raw Material Suppliers
Table 4	U.S. Macroeconomic Outlay
Table 5	Canada Macroeconomic Outlay
Table 6	Mexico Macroeconomic Outlay
Table 7	Germany Macroeconomic Outlay
Table 8	Italy Macroeconomic Outlay
Table 9	France Macroeconomic Outlay
Table 10	UK Macroeconomic Outlay
Table 11	Spain Macroeconomic Outlay
Table 14	China Macroeconomic Outlay
Table 15	India Macroeconomic Outlay
Table 16	Japan Macroeconomic Outlay
Table 17	South Korea Macroeconomic Outlay
Table 19	Brazil Macroeconomic Outlay
Table 20	Argentina Macroeconomic Outlay
Table 21	Saudi Arabia Macroeconomic Outlay
Table 22	South Africa Macroeconomic Outlay
Table 23	Participant's Overview
Table 24	Financial Performance
Table 25	Product Benchmarking
Table 26	Company Heat Map Analysis
Table 27	Key Strategy Mapping

List Of Figures

LIST OF FIGURES

- Fig. 1 Polyethylene Terephthalate (PET) catalyst market Segmentation
- Fig. 2 Information Procurement
- Fig. 3 Data Analysis Models
- Fig. 4 Market Production And Validation
- Fig. 5 Data Validating & Publishing
- Fig. 6 Polyethylene Terephthalate (PET) catalyst market Snapshot
- Fig. 7 Polyethylene Terephthalate (PET) catalyst market Segmental Outlook, 2024 (Kilotons) (USD Million)
- Fig. 8 Polyethylene Terephthalate (PET) catalyst market: Competitive Insights
- Fig. 9 Global Polyethylene Terephthalate (PET) catalyst market, 2024 (Kilotons) (USD Million)
- Fig. 10 Global Polyethylene Terephthalate (PET) catalyst market Value Chain Analysis
- Fig. 11 Polyethylene Terephthalate (PET) catalyst market Dynamics
- Fig. 12 Polyethylene Terephthalate (PET) catalyst market: Porter's Analysis
- Fig. 13 Polyethylene Terephthalate (PET) catalyst market: Pestel Analysis
- Fig. 14 Polyethylene Terephthalate (PET) catalyst market Analysis & Segment Forecast, By Product, 2018 - 2033 (Kilotons) (USD Million)
- Fig. 15 Antimony Based Market Analysis & Segment Forecast, By, Product 2018 - 2033 (Kilotons) (USD Million)
- Fig. 16 Aluminum Based Market Analysis & Segment Forecast, By Product, 2018 - 2033 (Kilotons) (USD Million)
- Fig. 17 Titanium Based Market Analysis & Segment Forecast, By, Product, 2018 - 2033 (Kilotons) (USD Million)
- Fig. 18 Germanium-based Market Analysis & Segment Forecast, By, Product, 2018 - 2033 (Kilotons) (USD Million)
- Fig. 19 Other Polyethylene Terephthalate (PET) catalyst market Analysis & Segment Forecast, By Product, 2018 - 2033 (Kilotons) (USD Million)
- Fig. 20 Polyethylene Terephthalate (PET) catalyst market Analysis & Segment Forecast, By Application, 2018 - 2033 (Kilotons) (USD Million)
- Fig. 21 Packaging Polyethylene Terephthalate (PET) catalyst market Analysis & Segment Forecast, By Application, 2018 - 2033 (Kilotons) (USD Million)
- Fig. 22 Textile & Apparel Polyethylene Terephthalate (PET) catalyst market Analysis & Segment Forecast, By Application, 2018 - 2033 (Kilotons) (USD Million)
- Fig. 23 Automotive Polyethylene Terephthalate (PET) catalyst market Analysis &

Segment Forecast, By Application, 2018 - 2033 (Kilotons) (USD Million)

Fig. 24 Medical Polyethylene Terephthalate (PET) catalyst market Analysis & Segment Forecast, By Application, 2018 - 2033 (Kilotons) (USD Million)

Fig. 25 Other Applications Polyethylene Terephthalate (PET) catalyst market Analysis & Segment Forecast, By Application, 2018 - 2033 (Kilotons) (USD Million)

Fig. 26 Polyethylene Terephthalate (PET) catalyst market Analysis & Segment Forecast, By Region, 2018 - 2033 (Kilotons) (USD Million)

Fig. 27 North America Polyethylene Terephthalate (PET) catalyst market Analysis & Segment Forecast, 2018 - 2033 (Kilotons) (USD Million)

Fig. 28 U.S. Polyethylene Terephthalate (PET) catalyst market Analysis & Segment Forecast, 2018 - 2033 (Kilotons) (USD Million)

Fig. 29 Canada Polyethylene Terephthalate (PET) catalyst market Analysis & Segment Forecast, 2018 - 2033 (Kilotons) (USD Million)

Fig. 30 Mexico Polyethylene Terephthalate (PET) catalyst market Analysis & Segment Forecast, 2018 - 2033 (Kilotons) (USD Million)

Fig. 31 Europe Polyethylene Terephthalate (PET) catalyst market Analysis & Segment Forecast, 2018 - 2033 (Kilotons) (USD Million)

Fig. 32 Germany Polyethylene Terephthalate (PET) catalyst market Analysis & Segment Forecast, 2018 - 2033 (Kilotons) (USD Million)

Fig. 33 Italy Polyethylene Terephthalate (PET) catalyst market Analysis & Segment Forecast, 2018 - 2033 (Kilotons) (USD Million)

Fig. 34 France Polyethylene Terephthalate (PET) catalyst market Analysis & Segment Forecast, 2018 - 2033 (Kilotons) (USD Million)

Fig. 35 UK Polyethylene Terephthalate (PET) catalyst market Analysis & Segment Forecast, 2018 - 2033 (Kilotons) (USD Million)

Fig. 36 Spain Polyethylene Terephthalate (PET) catalyst market Analysis & Segment Forecast, 2018 - 2033 (Kilotons) (USD Million)

Fig. 37 Asia Pacific Polyethylene Terephthalate (PET) catalyst market Analysis & Segment Forecast, 2018 - 2033 (Kilotons) (USD Million)

Fig. 38 China Polyethylene Terephthalate (PET) catalyst market Analysis & Segment Forecast, 2018 - 2033 (Kilotons) (USD Million)

Fig. 39 India Polyethylene Terephthalate (PET) catalyst market Analysis & Segment Forecast, 2018 - 2033 (Kilotons) (USD Million)

Fig. 40 Japan Polyethylene Terephthalate (PET) catalyst market Analysis & Segment Forecast, 2018 - 2033 (Kilotons) (USD Million)

Fig. 41 South Korea Polyethylene Terephthalate (PET) catalyst market Analysis & Segment Forecast, 2018 - 2033 (Kilotons) (USD Million)

Fig. 42 Latin America Polyethylene Terephthalate (PET) catalyst market Analysis & Segment Forecast, 2018 - 2033 (Kilotons) (USD Million)

Fig. 43 Brazil Polyethylene Terephthalate (PET) catalyst market Analysis & Segment Forecast, 2018 - 2033 (Kilotons) (USD Million)

Fig. 44 Argentina Polyethylene Terephthalate (PET) catalyst market Analysis & Segment Forecast, 2018 - 2033 (Kilotons) (USD Million)

Fig. 45 Middle East & Africa Polyethylene Terephthalate (PET) catalyst market Analysis & Segment Forecast, 2018 - 2033 (Kilotons) (USD Million)

Fig. 46 Saudi Arabia Polyethylene Terephthalate (PET) catalyst market Analysis & Segment Forecast, 2018 - 2033 (Kilotons) (USD Million)

Fig. 47 South Africa Polyethylene Terephthalate (PET) catalyst market Analysis & Segment Forecast, 2018 - 2033 (Kilotons) (USD Million)

Fig. 48 Polyethylene Terephthalate (PET) catalyst market: Company Categorization

Fig. 49 Polyethylene Terephthalate (PET) catalyst market: Company Market Share Analysis

Fig. 50 Polyethylene Terephthalate (PET) catalyst market: Company Market Positioning Analysis

Fig. 51 Polyethylene Terephthalate (PET) catalyst market: Strategy Mapping

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