

Propylene Market - Global Industry Size, Share, Trends, Opportunity & Forecast, Segmented By Derivatives (Polypropylene, Propylene Oxide, Cumene, Acrylonitrile, Acrylic Acid, Others), By End User (Automotive, Construction, Textile, Packaging, Others), By Region, & Competition, 2020-2030F

Market Report | 2025-09-30 | 180 pages | TechSci Research

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Report description:

Market Overview

The Propylene market was valued at USD 70.60 Billion in 2024 and is expected to reach USD 101.58 Billion by 2030 with a CAGR of 6.25%. The global Propylene market is undergoing substantial growth, fueled by key drivers such as technological innovation, increasing demand for consumer-driven healthcare, the rising incidence of chronic diseases, and a growing focus on preventive care. Propylene products ranging from blood tests and pregnancy kits to glucose monitors and allergy testing solutions are progressively becoming integral tools for individuals managing their own health. These devices enable users to monitor a variety of health parameters independently, eliminating the need for clinical visits and empowering consumers to take control of their health.

The market's growth trajectory remains robust, underpinned by advancements in diagnostic technologies, heightened consumer health consciousness, and a shift toward more affordable, accessible, and personalized health solutions. As these Propylene products become increasingly central to health management strategies, the market is expected to continue expanding.

Regulatory support and ongoing innovations in diagnostics further enhance the market's potential, positioning the Propylene segment as a lucrative opportunity for stakeholders in the healthcare and diagnostics industries.

Key Market Drivers

Rising Demand for Polypropylene (PP)

The rising demand for polypropylene (PP) is one of the primary factors driving the growth of the global propylene market. Polypropylene, as the largest derivative of propylene, serves as a versatile and widely used polymer across multiple industries. The relationship between propylene and polypropylene makes the growth of PP directly influential on the overall propylene

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market. Polypropylene is extensively used in flexible and rigid packaging, including films, containers, caps, and labels, due to its lightweight, durable, chemical-resistant, and cost-effective properties. The global surge in packaged foods, beverages, personal care products, and pharmaceuticals has fueled the need for polypropylene-based packaging solutions. This demand cascade directly increases the consumption of propylene, the key feedstock for PP production. Polypropylene is widely used in the automotive sector for manufacturing bumpers, interior trims, dashboards, and battery casings. The polymer's strength, thermal stability, and lightweight nature help reduce vehicle weight and improve fuel efficiency. Rising automobile production globally, especially in emerging economies such as China, India, and Southeast Asia, has significantly contributed to polypropylene demand, which in turn drives the propylene market.

Polypropylene is a preferred material for household appliances, furniture, and consumer goods due to its durability and resistance to wear and tear. Increasing urbanization and higher disposable incomes in developing regions are boosting demand for these products, thereby creating a steady demand pipeline for polypropylene and its parent chemical, propylene. Polypropylene fibers are extensively used in carpets, ropes, geotextiles, and industrial fabrics. Growing infrastructure and construction activities, coupled with rising technical textile applications, are contributing to the expansion of polypropylene consumption, further strengthening propylene demand.

Key Market Challenges

Feedstock Volatility and Supply Constraints

Propylene production relies heavily on feedstocks such as naphtha, propane, and crude oil derivatives, which are subject to global price fluctuations and supply disruptions. Geopolitical tensions, trade restrictions, and crude oil market volatility can lead to inconsistent feedstock availability and increased production costs. Additionally, the transition from traditional naphtha-based production to propane dehydrogenation (PDH) requires significant capital investment, which may not be feasible for all producers. These supply-side uncertainties can limit production flexibility and hinder market growth, particularly in regions heavily dependent on imported feedstocks.

Key Market Trends

Expansion of Propane Dehydrogenation (PDH) Capacity

A significant future trend in the propylene market is the rapid expansion of PDH-based production facilities. PDH technology allows for the conversion of propane into high-purity propylene, providing flexibility to regions with abundant shale gas or propane feedstocks. This trend is especially pronounced in Asia Pacific and North America, where producers are increasingly investing in PDH plants to secure a stable, cost-competitive supply of propylene independent of naphtha or crude oil. The growth of PDH capacity not only strengthens regional self-sufficiency but also enhances global trade competitiveness, paving the way for sustained market expansion over the next decade.

Key Market Players

- [] BASF SE
- [] China Petroleum & Chemical Corporation
- [] The Dow Chemicals Company
- [] ExxonMobil Corporation
- [] LyondellBasell Industries Holdings B.V.
- [] Saudi Basic Industries Corporation
- [] Chaoyang Chemicals, Inc.
- [] Haikou Chemical Group Co., Ltd.
- [] Huntsman International L.L.C
- [] Global Bio-Chem Technology Group Company Limited

Report Scope:

In this report, the Global Propylene Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

- [] Propylene Market, By Derivatives:
 - o Polypropylene
 - o Propylene Oxide

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- o Cumene
- o Acrylonitrile
- o Acrylic Acid
- o Others

- Propylene Market, By End User:

- o Automotive
- o Construction
- o Textile
- o Packaging
- o Others

- Propylene Market, By Region:

- o North America
 - United States
 - Canada
 - Mexico
- o Europe
 - France
 - United Kingdom
 - Italy
 - Germany
 - Spain
- o Asia-Pacific
 - China
 - India
 - Japan
 - Australia
 - South Korea
- o South America
 - Brazil
 - Argentina
 - Colombia
- o Middle East & Africa
 - South Africa
 - Saudi Arabia
 - UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Propylene Market.

Available Customizations:

Global Propylene market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

- Detailed analysis and profiling of additional market players (up to five).

Table of Contents:

1. Product Overview
 - 1.1. Market Definition

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- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations
2. Research Methodology
 - 2.1. Objective of the Study
 - 2.2. Baseline Methodology
 - 2.3. Key Industry Partners
 - 2.4. Major Association and Secondary Sources
 - 2.5. Forecasting Methodology
 - 2.6. Data Triangulation & Validation
 - 2.7. Assumptions and Limitations
3. Executive Summary
 - 3.1. Overview of the Market
 - 3.2. Overview of Key Market Segmentations
 - 3.3. Overview of Key Market Players
 - 3.4. Overview of Key Regions/Countries
 - 3.5. Overview of Market Drivers, Challenges, Trends
4. Impact of COVID 19 on Global Propylene Market
5. Propylene Market Outlook
 - 5.1. Market Size & Forecast
 - 5.1.1. By Value & Volume
 - 5.2. Market Share & Forecast
 - 5.2.1. By Derivatives (Polypropylene, Propylene Oxide, Cumene, Acrylonitrile, Acrylic Acid, Others)
 - 5.2.2. By End User (Automotive, Construction, Textile, Packaging, Others)
 - 5.2.3. By Region
 - 5.2.4. By Company (2024)
 - 5.3. Market Map
6. North America Propylene Market Outlook
 - 6.1. Market Size & Forecast
 - 6.1.1. By Value & Volume
 - 6.2. Market Share & Forecast
 - 6.2.1. By Derivatives
 - 6.2.2. By End User
 - 6.2.3. By Country
 - 6.3. North America: Country Analysis
 - 6.3.1. United States Propylene Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value & Volume
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Derivatives
 - 6.3.1.2.2. By End User
 - 6.3.2. Canada Propylene Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value & Volume
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Derivatives

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- 6.3.2.2.2. By End User
- 6.3.3. Mexico Propylene Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value & Volume
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Derivatives
 - 6.3.3.2.2. By End User
- 7. Europe Propylene Market Outlook
 - 7.1. Market Size & Forecast
 - 7.1.1. By Value & Volume
 - 7.2. Market Share & Forecast
 - 7.2.1. By Derivatives
 - 7.2.2. By End User
 - 7.2.3. By Country
 - 7.3. Europe: Country Analysis
 - 7.3.1. Germany Propylene Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value & Volume
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Derivatives
 - 7.3.1.2.2. By End User
 - 7.3.2. United Kingdom Propylene Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value & Volume
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Derivatives
 - 7.3.2.2.2. By End User
 - 7.3.3. Italy Propylene Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value & Volume
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Derivatives
 - 7.3.3.2.2. By End User
 - 7.3.4. France Propylene Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value & Volume
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Derivatives
 - 7.3.4.2.2. By End User
 - 7.3.5. Spain Propylene Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value & Volume
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Derivatives
 - 7.3.5.2.2. By End User
 - 8. Asia-Pacific Propylene Market Outlook
 - 8.1. Market Size & Forecast

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- 8.1.1. By Value & Volume
- 8.2. Market Share & Forecast
 - 8.2.1. By Derivatives
 - 8.2.2. By End User
 - 8.2.3. By Country
- 8.3. Asia-Pacific: Country Analysis
 - 8.3.1. China Propylene Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value & Volume
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Derivatives
 - 8.3.1.2.2. By End User
 - 8.3.2. India Propylene Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value & Volume
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Derivatives
 - 8.3.2.2.2. By End User
 - 8.3.3. Japan Propylene Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value & Volume
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Derivatives
 - 8.3.3.2.2. By End User
 - 8.3.4. South Korea Propylene Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value & Volume
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Derivatives
 - 8.3.4.2.2. By End User
 - 8.3.5. Australia Propylene Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value & Volume
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Derivatives
 - 8.3.5.2.2. By End User
- 9. South America Propylene Market Outlook
 - 9.1. Market Size & Forecast
 - 9.1.1. By Value & Volume
 - 9.2. Market Share & Forecast
 - 9.2.1. By Derivatives
 - 9.2.2. By End User
 - 9.2.3. By Country
 - 9.3. South America: Country Analysis
 - 9.3.1. Brazil Propylene Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value & Volume

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- 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Derivatives
 - 9.3.1.2.2. By End User
- 9.3.2. Argentina Propylene Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value & Volume
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Derivatives
 - 9.3.2.2.2. By End User
- 9.3.3. Colombia Propylene Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value & Volume
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Derivatives
 - 9.3.3.2.2. By End User
- 10. Middle East and Africa Propylene Market Outlook
 - 10.1. Market Size & Forecast
 - 10.1.1. By Value & Volume
 - 10.2. Market Share & Forecast
 - 10.2.1. By Derivatives
 - 10.2.2. By End User
 - 10.2.3. By Country
 - 10.3. MEA: Country Analysis
 - 10.3.1. South Africa Propylene Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value & Volume
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Derivatives
 - 10.3.1.2.2. By End User
 - 10.3.2. Saudi Arabia Propylene Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value & Volume
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Derivatives
 - 10.3.2.2.2. By End User
 - 10.3.3. UAE Propylene Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value & Volume
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Derivatives
 - 10.3.3.2.2. By End User
- 11. Market Dynamics
 - 11.1. Drivers
 - 11.2. Challenges
- 12. Market Trends & Developments
 - 12.1. Recent Developments
 - 12.2. Product Launches

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- 12.3. Mergers & Acquisitions
- 13. Global Propylene Market: SWOT Analysis
- 14. Competitive Landscape
 - 14.1. BASF SE
 - 14.1.1. Business Overview
 - 14.1.2. Product & Service Offerings
 - 14.1.3. Recent Developments
 - 14.1.4. Financials (If Listed)
 - 14.1.5. Key Personnel
 - 14.1.6. SWOT Analysis
 - 14.2. China Petroleum & Chemical Corporation
 - 14.3. The Dow Chemicals Company
 - 14.4. ExxonMobil Corporation
 - 14.5. LyondellBasell Industries Holdings B.V.
 - 14.6. Saudi Basic Industries Corporation
 - 14.7. Chaoyang Chemicals, Inc.
 - 14.8. Haike Chemical Group Co., Ltd.
 - 14.9. Huntsman International L.I.C
 - 14.10. Global Bio-Chem Technology Group Company Limited
- 15. Strategic Recommendations
- 16. About Us & Disclaimer

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