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Polyoxy Tetramethylene Glycol Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Sales Channel (Direct, Indirect), By End user Industry (Automotive, Adhesives and Sealants, Textile, Electrical and Electronics, Medical Industry, Others), By Region & Competition, 2021-2031F

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Abstracts

The Global Polyoxy Tetramethylene Glycol (PTMG) market is forecast to expand from 1.05 million tonnes in 2025 to 1.41 million tonnes by 2031, reflecting a compound annual growth rate of 5.04%. Also referred to as polytetramethylene ether glycol, PTMG is a linear polyether glycol produced through the polymerization of tetrahydrofuran, featuring hydroxyl groups at both ends. This adaptable polyol is prized for its outstanding chemical resistance, low-temperature efficacy, hydrolytic stability, and flexibility, which make it essential for numerous high-performance materials. Expansion in the market is largely fueled by consistent demand for elastic fibers from the spandex sector, alongside growing utilization in copolyester-ether elastomers and thermoplastic polyurethanes within advanced textiles, footwear, and automotive applications. Underscoring the scale of end-use sectors, the American Chemistry Council reported that the U.S. polyurethanes industry generated $34.8 billion in direct output in 2024.

A primary obstacle that could hinder this market growth is the persistent price volatility of essential raw materials, especially tetrahydrofuran. Such unpredictable costs create substantial financial uncertainty for PTMG producers, thereby affecting industry-wide strategic investment initiatives and overall production economics.

Market Driver

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Escalating requirements for thermoplastic polyurethanes (TPU) and polyurethane elastomers act as a major catalyst for the global Polyoxy Tetramethylene Glycol market. PTMG is an essential component in manufacturing these advanced materials due to its superior low-temperature performance, hydrolytic stability, and flexibility. While polyurethane elastomers are broadly utilized in footwear, industrial machinery, and automotive parts, TPUs are seeing wider application in specialized films, cable jacketing, and modern textiles. Reflecting this trend, BASF's October 2025 Capital Market Update projected a 3% expansion in the polyurethane market for 2025—an increase of roughly 80 kilotons driven largely by Asian demand. This continuous rise in TPU and polyurethane output directly elevates the need for PTMG as a core polyol.

This upward trajectory is further supported by a significant global increase in the production of elastic fibers and spandex. As a vital raw material for spandex (elastane), PTMG is critical for producing consumer goods, medical textiles, and high-performance, comfortable apparel. Demand is propelled by ongoing advancements in textile production and a growing consumer appetite for activewear. Highlighting this expansion, The LYCRA Company launched its largest spandex manufacturing plant in Ningxia, China, in November 2025, contributing an initial 30,000 tons of capacity. Additionally, major chemical manufacturer Covestro posted €487 million in net operating cash flows for fiscal 2025, emphasizing the robust ongoing activity throughout the PTMG value chain.

Market Challenge

A major barrier to the global Polyoxy Tetramethylene Glycol market's expansion is the persistent price instability of raw materials, most notably tetrahydrofuran. These fluctuating prices create significant financial unpredictability for PTMG manufacturers, profoundly affecting their strategic investment decisions and overall production costs. The inability to accurately predict expenses makes it difficult for producers to preserve consistent profit margins, which ultimately discourages capacity investments and curtails broader market development.

Highlighting this issue, the European Chemical Industry Council noted that 2025 European gas prices remained 2.5 times greater than those in the U.S., creating a heavy cost burden for local chemical manufacturers and skewing raw material economics. Along with a broader surge in input expenses, this regional imbalance makes PTMG pricing strategies highly complex. Additionally, the American Chemistry Council observed a 3.4% year-over-year increase in U.S. headline producer prices by

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February 2026, pointing to energy costs as a primary force behind the inflation of chemical manufacturing inputs. Ultimately, this landscape of escalating and erratic raw material costs limits market growth by squeezing profit margins and stalling long-term strategic plans.

Market Trends

A crucial industry trend is the transition toward bio-based Polyoxy Tetramethylene Glycol, motivated by a growing emphasis on sustainability and a desire to decrease dependence on fossil fuels. This shift not only mitigates environmental impacts but also provides producers with a resilient supply chain that is insulated from petrochemical price fluctuations. Consequently, businesses are directing capital into plants that manufacture bio-sourced precursors for PTMG production. Highlighting this shift, PU MAGAZINE reported in April 2024 that Hyosung TNC pledged a $1 billion investment to build several Bio-BDO facilities capable of producing 200,000 tons annually, targeting materials such as PTMG for spandex. Such investments underscore a broader industry pivot toward eco-friendly chemical manufacturing to satisfy escalating consumer demand for sustainable goods.

Another prominent trend is the rising utilization of PTMG derivatives in the production of electric vehicle (EV) components, which opens a dynamic new avenue for the market. Because of its exceptional low-temperature functionality, hydrolytic stability, and flexibility, PTMG serves as a premier polyol for creating the high-performance thermoplastic polyurethanes and polyurethanes required for EV interior parts, cable jacketing, and battery enclosures. As automakers increasingly rely on sophisticated materials to boost vehicle efficiency, durability, and safety, this niche demand strongly bolsters market expansion. Reinforcing this trajectory, the 2025 IEA Global EV Outlook reported that global EV battery demand surged past 950 GWh in 2024—a 25% jump from 2023—highlighting a rapidly growing requirement for foundational materials like PTMG in the automotive space.

Key Market Players

BASF SE

The Chemours Company

Hyosung Corporation

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DCC Corporation

Mitsubishi Chemical Group Corporation

Formosa Plastics Corporation

China Petroleum & Chemical Corporation

Shanxi Sanwei Group Co., Ltd.

Ashland Inc.

Sipchem Company

Report Scope

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

Polyoxy Tetramethylene Glycol Market, By Sales Channel

Direct

Indirect

Polyoxy Tetramethylene Glycol Market, By End user Industry

Automotive

Adhesives and Sealants

Textile

Electrical and Electronics

Medical Industry

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- Others

Polyoxy Tetramethylene Glycol Market, By Region

- North America
  - United States
  - Canada
  - Mexico
- Europe
  - France
  - United Kingdom
  - Italy
  - Germany
  - Spain
- Asia Pacific
  - China
  - India
  - Japan
  - Australia
  - South Korea
- South America
  - Brazil

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Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Polyoxy Tetramethylene Glycol Market.

Available Customizations:

Global Polyoxy Tetramethylene Glycol 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).

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