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Polyoxymethylene Market Forecasts to 2030 – Global Analysis By Type (Homopolymer and Copolymer), Processing Method (Injection Molding, Blow Molding and Extrusion), Application, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Polyoxymethylene Market is accounted for $3.6 billion in 2024 and is expected to reach $4.8 billion by 2030 growing at a CAGR of 4.9% during the forecast period. Polyoxymethylene (POM) is high-performance engineering thermoplastic with superior stiffness, low friction, and mechanical strength. Originating from formaldehyde polymerization, it finds extensive application in precision components that demand high stiffness, dimensional stability, and wear resistance. Outstanding electrical insulation qualities, good thermal stability, and superior chemical resistance are all displayed by POM. Automotive parts, electrical connectors, consumer products, and industrial machinery are just a few of its uses, which make it perfect for high-precision and demanding applications.

According to Statista, the total global production capacity of polyacetal was 1.7 million tons per year as of 2015.

Market Dynamics:

Driver:

Increasing demand from automotive sector

POM's high mechanical strength, rigidity, and excellent dimensional stability make it ideal for precision components like gears, fuel system parts, and interior trims. With the

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rise of electric vehicles and stringent fuel efficiency regulations, automakers increasingly adopt POM to replace heavier metal parts, reducing vehicle weight without compromising performance. This trend significantly boosts POM's demand, solidifying its role in the automotive sector.

Restraint:

Volatility in raw material prices

Fluctuating prices of raw materials like formaldehyde and acetic acid pose a significant restraint to the POM market. These price variations, driven by supply-demand imbalances, geopolitical tensions, and currency fluctuations, directly impact production costs. Manufacturers often pass these increased costs onto consumers, potentially reducing demand. Additionally, the unpredictability of raw material availability complicates long-term planning for POM producers and end-users, creating challenges in maintaining consistent pricing and supply stability.

Opportunity:

Growing demand for miniaturization

The increasing trend toward miniaturization in industries such as electronics and healthcare presents a lucrative opportunity. POM's superior properties—low friction, high stiffness, and excellent dimensional stability—make it ideal for manufacturing small, intricate components like connectors, gears, and medical device parts. As devices become smaller and more complex, the demand for high-performance engineering plastics like POM rises. This trend is further fueled by advancements in manufacturing technologies like injection molding.

Threat:

Environmental concerns

The release of formaldehyde during manufacturing raises regulatory scrutiny and necessitates compliance with stringent environmental standards. Additionally, increasing consumer and governmental focus on sustainability pressures manufacturers to adopt eco-friendly practices or develop recyclable alternatives. These challenges could hinder the growth of conventional POM applications while driving the need for innovation in sustainable materials.

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Covid-19 Impact:

The COVID-19 pandemic has impacted the Polyoxymethylene market by disrupting supply chains and manufacturing operations. Lockdowns and restrictions led to temporary shutdowns of production facilities, causing delays in the availability of POM products. However, the pandemic also accelerated the adoption of medical devices and personal protective equipment, sectors where POM is utilized, partially offsetting the negative effects. As industries adapt to new norms, the market is expected to grow.

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

The copolymer segment is expected to account for the largest market share during the forecast period due to the growing demand for materials that offer superior mechanical properties and durability. Copolymer POM's ability to withstand harsh conditions and its suitability for precision molding make it a preferred choice in various applications, including automotive components, electrical connectors, and consumer products. The segment's dominance is expected to continue as industries seek high-performance materials.

The drug delivery systems segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the drug delivery systems segment is predicted to witness the highest growth rate. This growth is attributed to the material's suitability for manufacturing precise and reliable drug delivery devices. POM's excellent mechanical properties and biocompatibility make it ideal for creating components such as pumps, valves, and reservoirs used in medical devices. The increasing focus on patient-centric healthcare solutions is expected to drive the demand for POM in drug delivery applications.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share due to its robust industrial base across key sectors like automotive, electronics, and healthcare. Countries such as China, Japan, India, and South Korea drive demand with their growing manufacturing activities and urbanization trends. The region's focus on lightweight materials for fuel-efficient vehicles further boosts POM adoption in transportation applications. Additionally, the region's thriving electronics industry

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supports significant consumption of POM for components like housings and connectors.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR due to increasing investments in infrastructure development and industrialization. Rising disposable incomes drive demand for consumer electronics and vehicles that rely on high-performance materials like POM. The region's expanding healthcare sector also contributes significantly through applications in medical devices. With its strong economic growth trajectory and focus on advanced manufacturing technologies, Asia Pacific remains a key driver of Polyoxymethylene market expansion.

Key players in the market

Some of the key players in Polyoxymethylene Market include Asahi Kasei Corporation, BASF SE, Celanese Corporation, China BlueChemical Limited, Daicel Corporation, DuPont de Nemours, Inc., Formosa Plastics Group, Henan Energy and Chemical Group Company Limited, Kolon BASF innoPOM, Inc., Korea Engineering Plastics Company Limited, LG Chem Limited, Mitsubishi Chemical Corporation, Mitsubishi Gas Chemical Company, Inc., Polyplastics Company Limited, Saudi Basic Industries Corporation (SABIC), Tangshan Zhonghao Chemical Company Limited, Yankuang Lunan Chemical Company Limited and Yunnan Yuntianhua Company Limited.

Key Developments:

In November 2024, Masashi Fujii has completed preparations for the first operation of its polyacetal (POM) producing company, DP Engineering Plastics (Nantong) Co., Ltd., in which MGC has an indirect investment in China. MGC is pleased to announce that commercial operations at the company will commence at the end of November 2024.

In November 2024, DuPont announced that it will complete its previously announced sale of an 80.1% ownership interest in the Delrin® acetal homopolymer (H-POM) business to an affiliate of TJC LP (TJC) in a transaction valuing the business at $1.8 billion. At close, DuPont will receive pre-tax cash proceeds of approximately $1.28 billion which includes certain customary transaction adjustments, a note receivable of $350 million, and will retain a 19.9% non-controlling common equity interest in the Delrin business.

In November 2022, Asahi Kasei and its affiliated companies have acquired the widely

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recognized international certification ISCC PLUS1 for several products as shown below. The certification ensures that biomass, recycled materials, etc., are appropriately managed under the mass-balance method2 in the whole supply chain including manufacturing. With the acquisition of this certification, Asahi Kasei will be able to provide ISCC PLUS certified products.

Types Covered:

- Homopolymer
- Copolymer

Processing Methods Covered:

- Injection Molding
- Blow Molding
- Extrusion

Applications Covered:

- Fuel Systems
- Door Lock Systems
- Gear Components
- Connectors & Switches
- Drug Delivery Systems
- Conveyor Systems
- Precision Parts
- Other Applications

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End Users Covered:

- Automotive
- Electrical & Electronics
- Healthcare & Life Sciences
- Industrial Machinery
- Consumer Goods
- Other End Users

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain

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- 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

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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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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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