

# Global Polyphenylene Oxide (PPO) Market Outlook to 2027

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## Abstracts

Polyphenylene Oxide is a crystalline thermoplastic that is tough, stiff, and has a high glass transition temperature and high melt point, it is resistant to both acids and bases. According to BlueQuark Research & Consulting, the global Polyphenylene Oxide market is expected to witness a significant growth rate during the forecasted period. Factors such as the increasing use of durable, cost-effective, and lightweight metal alternatives in automobiles to increase the fuel economy are expected to drive the global Polyphenylene Oxide market in the forecasted period. Further, owing to its heat resistance characteristics, Polyphenylene Oxide is used in the electronics industry to produce electronic components, which is expected to drive the Polyphenylene Oxide market in the forecasted period. Furthermore, the utilization of Polyphenylene Oxide in Consumer Goods like washing machines, dishwashers, and other home appliances is expected to drive the global Polyphenylene Oxide market in the forecasted period. Using Polyphenylene Oxide to make Air separation membranes for creating Nitrogen to make fertilizer is also projected to propel the PPO market further. However, stringent government regulations, the existence of substitutes, and fluctuating raw material prices are expected to hamper the global Polyphenylene Oxide market growth.

Polyphenylene Oxide manufactures automotive components such as instrument panels, internal trim, wheel covers, fuse boxes, speaker grilles, mirror cases, headlights, and others like home appliances, connectors, etc. PPO is also used in end-use industries such as electronics, and consumer goods, among others.

The Automobile industry is the leading consumer of Polyphenylene Oxide and is projected to propel the global Polyphenylene Oxide market. Knowledge of the relationship between automobile weight and fuel economy has resulted in vehicles makers shifting to cost-effective and lightweight metal alternatives to raise the fuel

economy of the vehicles, which has further resulted in the market's growth. Polyphenylene is processed into its derivatives, such as polyphenylene sulfide, polyphenylene oxide, and polyphenylene ether. Polyphenylene derivatives are favored in electric auto parts that require higher temperature stability. Polyphenylene sulfide successfully replaced metal, aromatic nylons, phenolic polymers, and bulk molding compounds in a broad variety of engineered vehicle components. Polyphenylene derivatives become the perfect choice for automotive parts that are exposed to high temperatures. These can provide high strength while being light in weight. According to Toyota, a prime automobile manufacturer, its total global sales for May 2021 were 904,670 units, a 48.4% year-on-year surge. The present-day boom in sales of Electric Vehicles is also predicted to drive the global Polyphenylene Oxide market. Since Polyphenylene Oxide is an engineering material worn in parts that require precision both externally and internally in a vehicle, its applications are not limited and almost identical in both electric and conventional cars, thus making it essential even for the emerging electric vehicle market. Further, according to IBEF, the automobile manufactured in India surged at 2.36% CAGR between FY16-20, with 26.36 million cars being produced in the country in FY20, with nearly 21.55 million automobiles being sold. Therefore the requirement of Polyphenylene Oxide in the vehicle industry is expected to grow and drive the global market in the future.

The Asia-Pacific region is predicted to be the leader in Polyphenylene Oxide production, with most of the consumption in developing economies such as China and India. Polyphenylene oxide (PPO) is prepared by an oxidative combination of phenylene oxide monomer using oxygen and a copper-based catalyst. As blunt Polyphenylene Oxide is a semi-crystalline thermoplastic, it will be blended with high-impact polystyrene in order to enhance melt processability and make it feasible for commercial applications. Further blending with the worn of other modifiers results in numerous grades of the engineering thermoplastic with differing characteristics tailored to cater to the needs of individual end-users. Increasing Demand for PPO in the electronics sector - The electronics industry uses heavy metals like exotic, lead solder, and costly materials such as superconductors and rare metals, and volatile organic compounds (VOCs) for degreasing and to strip solder masks, acids for etching, etc. Environmental Benefits with the worn of Polyphenylene Oxide - As the ecological pressure to become greener is increasing, many processes and materials have gotten much cleaner over the years, like lead-free soldering, cadmium-free colorant packages, and low-or no-halogen flame retardants. Polyphenylene Oxide has a massive scope of application in the automotive industry, which has resulted in a rise in need from countries such as China, India, and Japan. China is the most extensive base for vehicle production globally, as reported by the China Association of Automobile Manufacturers. Vehicle sales in China are

anticipated to hit 27 million in 2021, up 6.7 percent year-on-year. Thus, with thousands of automobiles produced daily, China satisfies its domestic need and caters to the international market for vehicles. Apart from the automobile industry, Japan, China, and South Korea are some of the largest electronics producers, which have Polyphenylene Oxide as one of the components, thus the increasing demand for Polyphenylene Oxide in the area as seen by the quarter 1 2021 report of smartphone maker Huawei, which saw the worth of USD 23.5 Billion. Further, there is a huge market in the region for numerous consumer goods and home appliances since 60% of the global population lives there. Furthermore, since Polyphenylene Oxide is used to make Air Separation membranes for the easy and cost-effective production of Nitrogen, which is further utilized in fertilizers, the demand for PPO in the region is expected to overgrow. Factors like these have made the Asia-Pacific region a vital scope for the global Polyphenylene Oxide market.

The primary market's key players are Asahi Kasei Plastics North America, Inc., BASF SE, Mitsubishi Chemical Corporation, SABIC, LyondellBasell Industries N.V., Celanese Corporation, among others.

In May 2021, Materials and Design Solution (MDS) acquired APS Plastics, Texas, to add to its variety of products.

In July 2020, Daicel acquires a stake of Celanese Corporation in Polyplastic for USD 1.575 Billion.

In May 2019, Royal DSM acquires the engineering plastics division of SRF Ltd for USD 44 million in India to expand its business.

Global Polyphenylene Oxide Market report provides deep insight into the Industrial market's current and future state across various regions. The study comprehensively analyses the Polyphenylene Oxide market by segmenting based on the Type (PPO Resins, MPPO, Others), End-User Industry (Automobile, Electronics, Consumer Goods, Others), and Geography (Asia-Pacific, North America, Europe, South America, and Middle-East and Africa). The report examines the market drivers and restraints and the impact of Covid-19 on the market growth in detail. The study covers emerging market trends, developments, opportunities, and challenges in the industry. This report also covers extensively researched competitive landscape sections with prominent companies and profiles, including their market shares and projects.

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e Corporation

ational BlueStar (Group) Co., Ltd.

ustries AG

ci. & Tech. Co., Ltd.

xtron Co., Ltd.

ai Chemical Corporation

Chemicals

engdu Letian Plastics Limited Company

mena New Materials

P Company

mitsu Lion Composites Co.,Ltd.

BIC

ondellBasell Industries N.V.

omentive Performance Materials, Inc

yplastics Co., Ltd.

*Companies is not exhaustive*

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