Global Polyphenylene Oxide (PPO) Market: Information by Application (Automotive, Electrical & Electronics, Healthcare, Building & Construction, Air Separation Membranes, and Others), and Region (North America, Latin America, Europe, Asia-Pacific, and the Middle East & Africa)—Forecast till 2025

Market Overview:

Global polyphenylene oxide (PPO) market is estimated to reach a value of USD ~950 billion in 2025 and is expected to grow at a CAGR of ~4.9% during the forecast period. Polyphenylene oxide (PPO) is a high-performance amorphous engineering thermoplastic. It has high resistance towards various chemicals such as mineral and organic acids, alcohols, oils, and ketones, and resistance to high temperatures. Moreover, PPO has high tensile and impact strength and is resistant to steam and hot water. Attributed to its properties, it is widely used in the automotive and electronic industry.

PPO owing to its inherent chemical composition unusually exhibits low moisture absorption. Thus it offers good electrical insulating properties over a wide range of humidity and temperature conditions. Moreover, it possesses superior dielectric properties, thereby making PPO suitable for manufacturing a wide range of electrical produces. Robust growth of electrical industry owing to increasing investment in infrastructural development and growing residential construction activities across the globe; is therefore expected to be the key driver for the growth of global polyphenylene oxide (PPO) market. Another important end-use industry of PPO is in the automotive industry, for the production of light and durable plastic products and components. Increasing production and sales of automobile in the Asia-Pacific region is expected to drive the growth of polyphenylene oxide (PPO) market during the forecast period. Some of the other driving factors identified in the global polyphenylene oxide (PPO) market include rapid urbanization, population growth, industrialization, and technological advancement.

Although having various attractive properties, PPO and its derivatives have limited commercial use, owing to the susceptibility of PPO to thermal oxidation about its high glass transition temperature which poses a significant challenge for the melt processing. Moreover, the raw PPO is expensive and is difficult to process; this factor may act as a restraining factor for the growth of the global market. Nevertheless, blending with other polymers such as polystyrene gave an acceptable balance of properties. Thus it is generally used as blended polymer products.

Regional Analysis:

Geographically, polyphenylene oxide market has been segmented into five regions, Asia-Pacific, Europe, Latin America, North America, and the Middle East & Africa. Asia-Pacific is expected to be the leading market for PPO across the globe. The region is expected to further witness significant growth during the forecast period on account of growing end-use industries such as electrical & electronics, automotive, and construction. China is expected to be the largest market in the Asia-Pacific region owing to the huge manufacturing base for the end-use industries, however, India is expected to create robust opportunity for the growth of polyphenylene oxide market, owing to rapid
industrialization supported by Indian Government to boost the domestic manufacturing capabilities with the help of schemes such as “Make in India”. North America and European market are expected to follow the Asia-Pacific market. North America polyphenylene oxide market is estimated to witness healthy growth on account of growing construction industry, significant investment in infrastructural development, and escalating investments to revitalize electrical & electronics sector. The European market is expected to be another prominent region witnessing promising growth. Germany, Russia, France, Italy, and the UK are expected to be leading countries in the European polyphenylene oxide market on account of increasing demand from medical and air separation membranes along with increasing investment in research & development as well as innovation. Latin American market is expected to witness significant growth primarily driven by improving macroeconomic conditions and growing automotive industry, particularly in Brazil, Mexico, Argentina, and Chile. Middle East & Africa market is expected to witness steady growth owing to rapid industrial growth and increasing foreign direct investment, particularly in South Africa.

Segmentation Analysis:

The global polyphenylene oxide market has been segmented based on application and region. Based on application, the global polyphenylene oxide market has been categorized as automotive, electrical & electronics, healthcare, building & construction, air separation membranes, and others. The global polyphenylene oxide market, by region, has been segregated into North America, Latin America, Europe, Asia-Pacific, and the Middle East & Africa.

Key players:

Some of the key players operating in the global polyphenylene oxide market are BASF SE (Germany), SABIC (Saudi Arabia), RTP Company (US), Celanese Corporation (US), Ensinger Inc. (India), Mitsubishi Electric Corporation (Japan), 3M (US), Goodfellow (UK), Asahi Kasei Chemicals Corp. (Japan), Solvay SA (Belgium), Sumitomo Chemical Co., Ltd (Japan), and LyondellBasell Industries Holdings BV (Netherlands).

Target Audience:

- Polyphenylene oxide manufacturers
- Traders and distributors of polyphenylene oxide
- Production process industries
- Potential investors
- Raw material suppliers
- Nationalized laboratory
4.2 Drivers
4.3 Restraints
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