

Global Polyphenylene Sulfide Market Outlook to 2027

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Abstracts

Polyphenylene sulfide is a semi-crystalline polymer with the greater degree and consists of various aromatic rings which are linked with each other, the synthetic fiber produced from the product is called to deliver high thermal and chemical resistance combined with high mechanical and temperature properties and thermoplastic in nature and exhibits specialized features including flame retardance, high heat deflection, and excellent dimensional stability, known for constant service temperature which mostly ranges from 1800°C to 2400°C. According to BlueQuark Research & Consulting, the global Polyphenylene Sulfide market is expected to witness a significant growth rate during the forecasted period. Factors driving the market include its enlarged application in the automotive industry, where the increasing demand for lightweight and durable metal alternatives surges. Further, due to its heat resistance properties, polyphenylene sulfide is used in the electronics industry, anticipated to drive the market. Using polyphenylene sulfide as coatings in industries to protect ferrous parts is expected to drive the market. Furthermore, using polyphenylene sulfide in the aerospace industry as a metal alternative is projected to drive the market. Using polyphenylene sulfide as filter bags in coal-fired power plants due to its chemical and heat resistance is awaited to drive the market. However, the emergence of alternatives such as Polyether ether ketone and Polyetherimide, combined with the fluctuating raw material costs, is expected to restrain the growth of the market.

Polyphenylene Sulfide is worn to manufacture automotive components like coolant systems, fuel injection systems, water pump impellers, and others like sockets, switches, relays, etc., and is also used in end-use industries such as automobile, electronics, aerospace, and industrial.

The Automobile industry is the leading consumer of Polyphenylene Sulfide and is expected to drive the global Polyphenylene Sulfide market. Increasing population and rapid urbanization are several reasons behind the rising sales of automobiles, especially

in the countryside such as India and China. According to IBEF, the automobile manufacturer in India grew at 2.36% CAGR between FY16-20, with 26.36 Million automobiles being produced in the country in FY20, with approximately 21.55 Million cars being sold. The requirement for reduced emissions and higher fuel economy has resulted in a growth focus on minimizing the weight of automobiles. Thus Polyphenylene sulfide, which is 100% recycled, increases fuel economy, and reduces emission levels, is likely to propel the increasing demand from the automotive sector. Polyphenylene Sulfide is an engineering material used in parts that essential precision both externally and internally in an automobile. Its direction is not limited and nearly identical in both electric and conventional cars, thus making it necessary even for the emerging electric vehicle market. Therefore the utilize of Polyphenylene Sulfide in the automobile industry is anticipated to grow and drive the overall Polyphenylene Sulfide market in the future.

Some key market players are DIC Corporation, Celanese Corporation, Solvay SA, Toray Industries, SK Chemicals.

The Asia-Pacific is projected to be a critical region in Polyphenylene Sulfide production, with the mass of consumption in China and India. Polyphenylene Sulfide has a massive scope of application in the automotive industry, which has resulted in rising needs from countries such as China, India, and Japan. China is the broadest base for automobile production globally. According to the China Association of Automobile Manufacturer, China's automobile sales are expected to hit 27 million in 2021, up 6.7% per annum. Accordingly, with thousands of automobiles manufactured daily, China satisfies its domestic need and caters to the international demand for vehicles. Aside from the automobile industry, China, Japan, and South Korea are several of the largest electronics manufacturers, which have Polyphenylene Sulfide as only the components, thus increasing the demand for Polyphenylene Sulfide in the area. According to Celanese Corporation, Airbus SE is applied to the Polyphenylene Sulfide produced by it to build lightweight fuselage for its airplanes, and therefore as aviation is acquiring popularity, there is a high-rise demand for polyphenylene sulfide in the area. According to the Chinese Government, coal-fired power plants about 56.8 percent of the total energy produced in the country, with the use of 4.98 billion metric tons of coal, making the need for polyphenylene sulfide grow as they are worn as filter bags in these plants. With many industries coming up in the area, the demand for ferrous coating machines makes polyphenylene sulfide a vital material resistant to chemicals and heat, thus preferred as a coating material. These facts have made the Asia Pacific region a crucial scope to the global Polyphenylene Sulfide market in the forecast period.

In May 2021, Material and Design Solution (MDS) acquired APS Plastic, Texas, to add to its variety of product.

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

In May 2019, Royal DSM purchased the engineering plastic division of SRF Ltd for USD 44 million in India to enlarge its business.

Global Polyphenylene Sulfide Market report provides deep insight into the Industrial market's current and future state across various regions. The study comprehensively analyses the Polyphenylene Sulfide market by segmenting based on the Type (Linear PPS, Branched PPS, Cured PPS), End-User Industry (Automobile, Electronics, Aerospace, Industrial, 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, market dynamics, 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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