

Global Bromobutyl (BIIR) Market Outlook to 2027

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Abstracts

Bromobutyl Rubber (BIIR) is a copolymer of isobutylene and small amounts of brominated isoprene derived from halogenating butyl rubber with bromine, exhibiting qualities such as excellent physical strength, excellent vibration dampening, a low permeability, and offering resistance to aging and weathering from environmental exposure. According to BlueQuark Research & Consulting, the global Bromobutyl Rubber market is expected to witness a significant growth rate during the forecasted period. Factors like the growing use of Bromobutyl rubber in the automotive sector for making engine mountings, window seals, tires, etc., are expected to drive the global market. Further, the use of Bromobutyl for the manufacturing of conveyor belts used in industries is projected to drive the market. Furthermore, the use of Bromobutyl in the medical industry to make medical stoppers and membranes is expected to drive the global market. However, factors like availability of substitutes, Environmental concerns, and fluctuating raw material prices are expected to hinder the global market growth.

Bromobutyl Rubber manufactures components like inner tubes of bicycles, trucks, and industrial and agricultural tires, hoses, seals, membranes, tank linings, special-purpose conveyor belts, engine mounts, protective clothing, medical stoppers, membranes, among others. BIIR is also used in end-use industries like automotive, industrial and medical.

The Automobile industry is the primary consumer of Bromobutyl Rubber and is projected to propel the global Bromobutyl Rubber market. The growing population and rapid urbanization are some of the reasons behind the growth of sales of vehicles, especially in countries like India and China. Bromobutyl rubber is mainly used in the inner liners of tires of passenger vehicles to keep tire pressures constant over the long term, thus adding to the life of the tires, at the same time rising fuel economy and efficiency and reducing carbon emissions.

Bromobutyl rubber expresses many of the attributes of the butyl molecule. It comprises physical strength, low glass transition temperature, low permeability, vibration damping, and resistance to aging and weathering from atmospheric exposure. These attributes make bromobutyl rubber a perfect material in tire liner applications. Further, the utilization of Bromobutyl in the making of automobile windscreen wipers is expected to drive the demand for Bromobutyl Rubber (BIIR) in the automotive segment. Since Bromobutyl is a critical component of all vehicles, its use is similar in conventional and electric cars, making it essential for future growth. Further, according to the International Organization of Motor Vehicle Manufacturer, 2021 saw nearly 21 million vehicles produced in the first three months, a 17% year-on-year increase. Thus, Bromobutyl is a vital component of the automotive segment, which is necessary for the industry's growth.

The Asia-Pacific region is anticipated to be the leader in Bromobutyl Rubber production, with most of the usage in China and India. Bromobutyl rubber is manufactured by reacting bromine with a hexane solution of butyl rubber in a two-step procedure. In the beginning, polymerization of isobutylene and isoprene takes place to manufacture butyl rubber (IIR). The next step involves bromination to form bromobutyl rubber—the mechanism of polymerization comprised of complex cationic reactions. Bromobutyl Rubber has a huge scope of application in the automotive industry to make the inner lining contain and maintain air pressure in the tires. Besides the tires, Bromobutyl rubber in the windshield wipers makes its utilization vital in automobile production. China is the major country in terms of the number of vehicles manufactured, with thousands manufactured daily, catering to its domestic need and the international market, with the China Association of Automobile Manufacturers reporting automobile sales in China to hit about 27 million in 2021. The global bromobutyl rubber market can be fragmented into tires & tubes, sealants, gloves, adhesives, etc. The tires & tubes section is expected to expand substantially during the forecast period due to an increase in usage of bromobutyl rubber in the tread of tires. Bromobutyl rubber helps improve tire grip and the associated wet braking performance without compromising rolling resistance. Bromobutyl rubber is also enormously employed in pharmaceutical closures. Further, the use of Bromobutyl in the production of conveyor belts worn in the industry is expected to propel the demand for Bromobutyl Rubber (BIIR) in the region, with many factories being set up recently. Therefore, more than half of the global population lives in the area, and the medical industry is critical to the region. The use of Bromobutyl rubber to make medical stoppers and membranes is predicted to drive the regional market. Thus, factors like these have made Asia Pacific an essential scope for the global Bromobutyl Rubber market.

Some of the global market's key players are ExxonMobil Chemical, Japan Butyl Company, Reliance Industries Limited, The Goodyear Tire and Rubber Company, Lanxess AG, and SIBUR. In August 2020, Reliance Industries Limited and SIBUR started a joint venture in India to produce synthetic rubber, Reliance Sibur Elastomers Private Limited. RIL holds 74.9%, while SIBUR holds 25.1%, with an annual production of 120,000 metric tons.

In July 2019, Shandong Chambroad Petrochemicals Co., Ltd gave a new contract to CONSER to produce Bromobutyl Rubber, producing nearly 50,000 tones annually.

Global Bromobutyl Rubber Market report provides deep insight into the Industrial market's current and future state across various regions. The study comprehensively analyses the Bromobutyl Rubber market by segmenting based on the Type (Regular Butyl, Bromobutyl, Others), Application (Tires and Tubes, Windscreen Wipers, Medical Stoppers, 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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