

# **Polybutadiene Market Report by Product (High Cis Polybutadiene, Low Cis Polybutadiene, High Trans Polybutadiene, High Vinyl Polybutadiene), Type (Solid Polybutadiene Rubber, Liquid Polybutadiene Rubber), Industry Vertical (Tire, Automotive, Chemical, Industrial Rubber Manufacturing, and Others), and Region 2024-2032**

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## **Abstracts**

The global polybutadiene market size reached US\$ 5.4 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 7.6 Billion by 2032, exhibiting a growth rate (CAGR) of 3.78% during 2024-2032. The growing demand for bio-based products, rising focus on fuel efficiency and environmental sustainability in the automotive sector, and increasing number of construction activities around the world are some of the major factors propelling the market.

Polybutadiene is a synthetic polymer that belongs to the family of elastomers and is known for its enhanced resilience. It is derived from the polymerization of butadiene monomers that provide a versatile material with a high degree of flexibility and durability. It has improved impact resistance, low-temperature performance, and electrical insulation properties. It offers superior elasticity, which makes it a key component in the production of various rubber-based products. As it assists in enhancing the performance and longevity of products across diverse sectors, the demand for polybutadiene is increasing across the globe.

At present, the rising demand for stylish footwear among the masses around the world is contributing to the growth of the market. In line with this, the increasing adoption of sports equipment due to the rising awareness about maintaining healthy lifestyles is

strengthening the growth of the market. Moreover, the growing demand for packaging materials that offer better protection during transit is positively influencing the market. In addition, the rising development of innovative polybutadiene variants with enhanced properties is offering lucrative growth opportunities to industry investors. Furthermore, the increasing production of conveyor belts, hoses, gaskets, and other components that require resilience and durability is supporting the growth of the market. Besides this, the rising number of international trades across the globe is impelling the growth of the market.

#### Polybutadiene Market Trends/Drivers:

##### Rising focus on fuel efficiency and environmental sustainability

The rising focus on fuel efficiency and environmental sustainability in the automotive sector is bolstering the growth of the market. In line with this, automakers are seeking ways to reduce vehicle weight while maintaining safety standards. Polybutadiene offers enhanced elasticity and impact resistance, which makes it a vital ingredient in the production of high-performance tires. Apart from this, these tires not only enhance fuel efficiency by reducing rolling resistance but also offer improved traction and durability, which is offering a positive market outlook. Furthermore, there is an increase in awareness among individuals about maintaining sustainability in the environment across the globe.

##### Increasing number of construction activities

The rising number of construction and infrastructure development activities around the world is bolstering the growth of the market. Builders are increasingly adopting long-lasting materials that assist in maintaining the integrity of the infrastructure. In addition, this polymer has high resilience and ability to withstand harsh environmental conditions, which makes it an ideal choice for various construction applications, such as roofing materials, sealants, adhesives, and coatings. Besides this, there is a rise in renovation activities due to the inflating income levels of individuals. Moreover, governing agencies of several countries are taking smart city initiatives, which is further positively influencing the market. There is a rise in the need for durable and weather-resistant materials that enhance the longevity and performance of construction materials.

##### Growing demand for bio-based products

The rising demand for bio-based products due to the increasing focus on sustainability among individuals is contributing to the growth of the market. In line with this, there is an

increase in the awareness among individuals to reduce the carbon footprint of industries. Bio-based products are derived from renewable resources, such as plants or biological waste, that offer a more environmentally friendly alternative to traditional petroleum-based products. Consumers and industries are recognizing the importance of reducing reliance on finite fossil fuels and mitigating the negative impacts of climate change. Various manufacturers are rapidly introducing bio-based polybutadiene that benefits in maintaining sustainability goals by reducing greenhouse gas (GHG) emissions.

#### Polybutadiene Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global polybutadiene market report, along with forecasts at the global, regional, and country levels for 2024-2032. Our report has categorized the market based on product, type, and industry vertical.

#### Breakup by Product:

- High Cis Polybutadiene
- Low Cis Polybutadiene
- High Trans Polybutadiene
- High Vinyl Polybutadiene

The report has provided a detailed breakup and analysis of the market based on the product. This includes high cis polybutadiene, low cis polybutadiene, high trans polybutadiene, and high vinyl polybutadiene.

High cis polybutadiene provides improved elasticity and resilience, which makes it a preferred choice for applications requiring high impact resistance. It is utilized in the manufacturing of high-performance tires, conveyor belts, and various industrial components that require excellent durability and mechanical strength.

Low cis polybutadiene contains a lower proportion of cis-1,4 bonds as compared to its high cis counterpart. It offers unique properties, such as improved wear resistance and reduced rolling resistance. It is commonly utilized in tire tread compounds that benefit in enhancing fuel efficiency and tire longevity while maintaining adequate traction and grip on road surfaces.

High trans polybutadiene exhibits greater heat resistance and stiffness as compared to cis polybutadiene. It is widely utilized in industries that require materials with good

thermal stability, such as automotive components, industrial coatings, and mechanical goods.

#### Breakup by Type:

Solid Polybutadiene Rubber

Liquid Polybutadiene Rubber

Solid polybutadiene rubber accounts for the majority of the market share

The report has provided a detailed breakup and analysis of the market based on the type. This includes solid polybutadiene rubber and liquid polybutadiene rubber. According to the report, solid polybutadiene rubber represented the largest segment. Solid polybutadiene rubber, also known as solid BR or high-cis polybutadiene, is a versatile polymer that is renowned for its enhanced mechanical properties. In addition, it exhibits remarkable elasticity, resilience, and impact resistance. These attributes make it a preferred choice for applications that demand durability and performance, especially in tire manufacturing. It is a crucial component in producing high-quality and fuel-efficient tires due to its ability to enhance rolling resistance and traction. Apart from this, it is a vital material in various industries that ensures reliable performance across diverse applications.

#### Breakup by Industry Vertical:

Tire

Automotive

Chemical

Industrial Rubber Manufacturing

Others

Tire represents the biggest market share

The report has provided a detailed breakup and analysis of the market based on the industry vertical. This includes tire, automotive, chemical, industrial rubber manufacturing, and others. According to the report, tire represented the largest segment. The tire industry relies on this rubber due to its enhanced properties that contribute to tire performance. It offers superior elasticity and impact resistance, which makes it an ideal choice for tire production. This material enhances the durability and safety of tires, ensures improved traction, reduces rolling resistance, and increases fuel

efficiency, which is offering a positive market outlook. The rising demand for vehicles among individuals, along with the advancements in tire technology, is bolstering the growth of the market.

#### Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Asia Pacific exhibits a clear dominance, accounting for the largest polybutadiene market share

The market research report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report,

Asia Pacific accounted for the largest market share.

Asia Pacific held the biggest market share due to the thriving automotive industry. Apart from this, the rising demand for materials that assist in enhancing the performance of a product is contributing to the growth of the market in the region. In line with this, favorable government initiatives to promote industrial development are propelling the growth of the market. Besides this, the rising construction activities due to rapid urbanization is bolstering the growth of the market in the Asia Pacific region.

#### Competitive Landscape:

Major manufacturers are investing in research and development (R&D) activities to develop innovative formulations with improved properties to meet specific industry requirements. This includes exploring new grades, variants, and blends of polybutadiene to expand its applicability across industries. Apart from this, key players are adopting advanced manufacturing technologies to enhance the efficiency and quality of the product. This includes process optimization, automation, and the utilization of advanced catalysts to achieve improved control over polymerization processes. In line with this, many companies are expanding their production capacities and establishing manufacturing facilities in key regions to ensure a steady supply of the product in emerging markets.

The report has provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

Evonik Industries AG (RAG-Stiftung)

JSR Corporation

Kumho Petrochemical Co. Ltd.

Kuraray Co. Ltd.

Lanxess AG

Nippon Soda Co. Ltd.

Reliance Industries Limited

Saudi Basic Industries Corporation (Aramco Chemicals Company)

Synthomer PLC

Synthos (Ftf Galleon S.A.)

UBE Corporation

Versalis (Eni S.p.A.)

#### Recent Developments:

In 2022, Evonik launched POLYVEST® eCO, a new range of sustainable liquid polybutadienes. This innovative product line uses sustainable butadiene in its production and assists in reducing the use of fossil feedstocks.

In 2023, Versalis announced the planning of a project at its site in Ravenna, Italy, that assist in increasing the capacity for elastomers. It expands the production mix for highly specialized elastomers, especially thermoplastic rubbers, polybutadiene and SBR, intended for the rapidly developing tire and automotive industries.

In 2023, KUMHO Petrochemical Co., Ltd., and Sumitomo Corporation signed memorandum of understanding (MOU) to establish a long-term collaboration for the development and further growth of the sustainable polymers and chemicals market in Asia.

### Key Questions Answered in This Report

1. How big is the global polybutadiene market?
2. What is the expected growth rate of the global polybutadiene market during 2024-2032?
3. What are the key factors driving the global polybutadiene market?
4. What has been the impact of COVID-19 on the global polybutadiene market?
5. What is the breakup of the global polybutadiene market based on the type?
6. What is the breakup of the global polybutadiene market based on the industry vertical?
7. What are the key regions in the global polybutadiene market?
8. Who are the key players/companies in the global polybutadiene market?

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