Polyisoprene Market Size and Share Outlook - Forecast Trends and Growth Analysis Report (2025-2034)

Market Report | 2025-08-13 | 176 pages | EMR Inc.

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Report description:

The polyisoprene market attained a volume of 18.56 Million Tons as of 2024 and is anticipated to grow at a CAGR of 5.50% during the forecast period of 2025 to 2034. The polyisoprene market is dominated by the growing demand for hypoallergenic and biocompatible materials in the medical industry. Synthetic polyisoprene is used as a substitute for natural rubber in medical devices like gloves and catheters due to its better elasticity and lower risk of allergic reactions. This trend is also driven by the growing number of surgeries and increased hygiene standards. The market is thus expected to reach a volume of nearly 31.70 Million Tons by 2034.

Polyisoprene Market Growth

Polyisoprene demand is augmenting due to increased demand from the automotive and medical industries. Polyisoprene is synthetic rubber that finds wide application in producing tires, medical devices, and consumer goods due to its toughness and flexibility. Increased demand from the automotive industry for lighter vehicles and more fuel-efficient burning of fuel is one of the key drivers. Polyisoprene finds application in tires and sealing components to enhance performance without increasing weight. For example, tire firms like Michelin have benefited from incorporating synthetic polyisoprene in their products, which enhances tire life and fuel economy, thus bolstering the growth of polyisoprene market.

Another driving force is the growing healthcare industry's need for hypoallergenic products. Polyisoprene is one of the leading materials used to produce medical gloves, catheters, and other medical products, offering a latex alternative for allergy patients. For instance, Ansell has been successful in exploiting the trend by producing medical gloves from synthetic polyisoprene, thereby becoming a market leader in the healthcare industry. With growing demand for both medical products and eco-friendly car components, the industry is creating new products to satisfy market needs, thereby making polyisoprene an eco-friendly and multi-purpose material. With changing consumer behavior, the market for polyisoprene is on the rise.

Key Trends and Recent Developments

The polyisoprene market is driven by bio-based adoption, technological advances in production, automotive weight reduction, and expanding healthcare applications.

November 2024

DL Chemical has inaugurated the world's largest polyisoprene latex plant on Jurong Island, Singapore, with an investment of 480 billion won. Operated by its subsidiary Cariflex, the facility aims to meet the rising global demand for high-quality medical materials, including surgical gloves.

August 2024

United States Medical Glove Company (USMGC) has acquired a domestic polyisoprene chemical facility, making it the only end-to-end, Made-in-America producer of both nitrile and polyisoprene medical gloves. This acquisition enables USMGC to manufacture 2.5 billion gloves annually, fulfilling contracts with U.S. government agencies like the Army, FEMA, and USPS. The 100,000-square-foot facility produces 3.2 million dry pounds of polyisoprene per year, yielding 60 million surgical gloves known for their latex-like feel and chemical resistance.

July 2022

Cariflex Pte. Ltd., a subsidiary of DL Chemical Co., has initiated construction of the world's largest polyisoprene latex plant on a 6.1-hectare site in Jurong Island, Singapore. This facility aims to enhance Cariflex's global supply capabilities for medical and consumer products, marking the company's most significant capacity expansion to date.

August 2021

NKNK, a subsidiary of TAIF Group, awarded Lummus Technology a contract to expand its Tatarstan olefins complex. The expansion includes new units for ethylbenzene, styrene, and propylene production, enhancing raw material supply for rubber and plastic manufacturing.

Adoption of Bio-Based Polyisoprene

The market is experiencing a shift to bio-based polyisoprene from renewable raw materials like sugarcane and soybean oil. The shift reduces dependence on fossil fuels and meets rising environmental sustainability expectations. The manufacturers are investing increasingly more in green technologies to meet regulatory needs and consumer expectations for sustainable products, thus pushing the growth of the polyisoprene market.

Technological Innovations in Production

Technological advancements in polymerization and additive manufacturing are enhancing the quality and diversity of synthetic polyisoprene. The technologies enable the production of material with superior properties, such as superior heat resistance and elasticity, enhancing the application area in the automotive and medical industries.

Focus on Lightweight Materials in Automotive Industry

The automotive industry's focus on minimizing vehicle weight to enhance fuel efficiency and minimize emissions is fueling the

need for light materials. The characteristics of synthetic polyisoprene render it appropriate for applications such as tires and seals, in line with the industry's sustainability goals, thereby helping to create new trends in the polyisoprene market.

Expansion of Healthcare Applications

The increasing demand for hypoallergenic and biocompatible materials in the medical industry is fueling the use of synthetic polyisoprene in medical devices. It is being used in devices such as surgical gloves and catheters, fueled by greater sensitivity to latex allergy and the need for safer products.

Polyisoprene Market Trends

The polyisoprene market is witnessing growing demand for bio-based polyisoprene because of a greater focus on green and sustainable materials. With green products gaining greater prominence among consumers as well as industries, bio-based polyisoprene offers a green alternative to traditional synthetic forms, reducing environmental impacts, thereby shaping new trends in the polyisoprene market.

Development in polyisoprene in medical application is gaining momentum. Increasing demand for biocompatible high-performance materials for medical devices, especially in catheters and surgical gloves, is encouraging manufacturers to improve the performance and quality of polyisoprene. The trend favors companies by increasing their product offerings in the healthcare industry.

Polyisoprene Industry Segmentation

The EMR's report titled "Polyisoprene Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

Market Breakup by Type

- Natural
- Synthetic

Market Breakup by Application

- Tyres and Related Products
- Latex Products
- Footwear
- Non-Automotive Engineering
- Belting and Hose
- Others

Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Polyisoprene Market Share

The global polyisoprene industry is gaining momentum by the increasing demand for both synthetic and natural forms, both serving unique industry requirements. As per the polyisoprene market analysis, natural polyisoprene, which is obtained from renewable resources such as rubber trees, is gaining popularity due to its sustainability and eco-friendliness, particularly in uses such as tires and medical devices.

Synthetic polyisoprene, obtained from petroleum processes, continues to dominate in industries such as automobile and consumer durables in terms of superior performance in areas such as flexibility and strength. According to the polyisoprene industry analysis, the global market values the useability of both types with natural polyisoprene gaining traction due to increasing consumer demand for green products, while synthetic polyisoprene meets needs on the basis of performance.

Competitive Landscape

Leading polyisoprene market players are concentrating on improving product quality, capacity expansion, and responding to increasing demand for sustainable alternatives. Firms are looking to improve the performance properties of natural and synthetic polyisoprene for medical equipment, automotive parts, and household products. With greater emphasis on sustainable materials, polyisoprene companies are investing in renewable materials and technologies to develop more sustainable alternatives and expanding their international presence through acquisitions and strategic partnerships.

PJSC Nizhnekamskneftekhim

PJSC Nizhnekamskneftekhim, established in Russia in 1991 in the Republic of Tatarstan, produces synthetic polyisoprene primarily for automotive and rubber use. The company is striving to develop advanced processing techniques to enhance the elasticity and strength of polyisoprene because of growing demand for the performance of high-quality rubber products.

Kuraray Europe GmbH

Kuraray Europe GmbH was founded in 1926 and is headquartered in Frankfurt, Germany. It manufactures both isoprene-based and synthetic polyisoprene products. It is involved in research of manufacturing bio-based polyisoprene for industrial and medical applications with the aim of manufacturing greener and more sustainable products in the market.

Shell Chemicals

Shell Chemicals, established in 1907, is headquartered in The Hague, Netherlands, offers polyisoprene products used in the automotive, medical, and consumer goods industries. They are striving to produce high-quality synthetic polyisoprene with higher durability and sustainability, employing the most advanced technology to maximize performance and reduce environmental impact.

Kent Elastomer Products, Inc.

Kent Elastomer Products, Inc., established in 1978 with headquarters in Kent, Ohio, United States, is a medical-grade polyisoprene product specialist. Kent Elastomer aims to create hypoallergenic, biocompatible polyisoprene products for medical and healthcare uses with the highest standards of performance and safety, specifically in catheters and gloves.

Polyisoprene Market Report Snapshots

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