

# **Bio-Based Polymer Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028**

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## **Abstracts**

The global bio-based polymer market size reached US\$ 7.6 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 10.9 Billion by 2028, exhibiting a growth rate (CAGR) of 6.4% during 2023-2028.

Bio based polymers refer to resins obtained from biological resources, such as algae, microorganisms, and plants. Synthesized directly or via monomer synthesis followed by polymerization, the primary biomass feedstock used in their manufacturing generally includes biogenic by-products, especially glycerol from biodiesel production. Since these polymers can help replace fossil carbon in the production process with renewable carbon from biomass, they are popularly used as an alternative solution for conventional plastics. Some of the advantages offered by these polymers include improved resistance to food fats, excellent clarity and gloss, a high aroma barrier, and exceptional twist retention and printability. As a result, bio based polymers find widespread applications across a broad array of industries, including food and beverages (F&B), agriculture, textiles, electronics, packaging, and healthcare.

### **Bio-Based Polymer Market Trends:**

The market is majorly driven by an enhanced focus on sustainable development. With the rising focus on reducing the dependency on conventional plastics, numerous global organizations are now promoting the uptake of biodegradable food-grade alternatives for beverage and snack packaging. Moreover, favorable policies and regulations undertaken by several government bodies across the globe are creating lucrative opportunities for key players in the market. Governments are not only discouraging the adoption of synthetic polymers but also implementing additional charges on the usage of conventional plastics in shopping and packaging applications. The market is further

driven by the escalating shift toward green chemicals in multiple end-use industries. Some of the other factors contributing to the market growth include the augmenting preference for green polyethylene (PE) prepared using the process of microbial fermentation and the growing awareness regarding the ease of disposing biodegradable polymers.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global bio-based polymer market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on type and application.

#### Breakup by Type:

- Polyethylene (PE)
- Polyamide (PA)
- Polylactic Acid (PLA)
- Polyethylene Terephthalate (PET)
- Others

#### Breakup by Application:

- Packaging
- Textile
- Automotive
- Industrial
- Agriculture
- Others

#### 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

#### Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Arkema S.A., BASF SE, Biome Bioplastics Limited, Corbion N.V., FKuR Kunststoff GmbH, Kuraray Co. Ltd., Mitsubishi Chemical Holdings Corporation, Novamont S.p.A., Rodenburg Productie B.V., thyssenkrupp AG and Toray Industries Inc.

#### Key Questions Answered in This Report:

How has the global bio-based polymer market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global bio-based polymer market?

What are the key regional markets?

What is the breakup of the market based on the type?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global bio-based polymer market and who are the key players?

What is the degree of competition in the industry?

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