

Bio-based Plastics Market Size, Share & Trends Analysis Report By Product (Bio-PE, Bio-PET, PLA, PHA), By Application (Packaging, Textiles & Fibers), By End Use (Food & Beverage, Healthcare, Agriculture), By Region, And Segment Forecasts, 2025 - 2033

<https://marketpublishers.com/r/B87B3D96A58EEN.html>

Date: September 2025

Pages: 120

Price: US\$ 5,950.00 (Single User License)

ID: B87B3D96A58EEN

Abstracts

Bio-based Plastics Market Summary

The global bio-based plastics market size was estimated at USD 7.66 billion in 2024 and is projected to reach USD 16.09 billion by 2033, growing at a CAGR of 8.7% from 2025 to 2033. Improvements in bioprocessing and chemical conversion are continually reducing production costs and improving yields.

This makes bio-based plastics more competitive with fossil-based alternatives. As technology maturity increases and capital intensity decreases, more manufacturers can justify commercial-scale investments and accelerate market adoption. Bio-based plastics are evolving from simple drop-in substitutes to higher-value applications that require tailored performance and traceable sustainability.

Manufacturers invest in novel raw materials such as agricultural residues, industrial byproducts, and engineered microbial products to reduce dependence on food crops and lower lifecycle emissions. This shift is accompanied by strategic partnerships along the value chain that connect waste stream owners, polymer producers, and brand owners to ensure consistent raw materials. The market is therefore evolving from raw material substitution to differentiated solutions that combine material functionality with certified environmental credentials.

Global Bio-based Plastics Market Report Segmentation

This report forecasts volume & revenue growth at the global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the global bio-based plastics market report based on product, application, end use, and region:

Product Outlook (Volume, Kilotons; Revenue, USD Million, 2021 - 2033)

Bio-PE (Polyethylene)

Bio-PET (Polyethylene Terephthalate)

PLA (Polylactic Acid)

PHA (Polyhydroxyalkanoates)

Starch Blends

Bio-based Polyamides

Bio-based Polyurethanes

Other Products

Application Outlook (Volume, Kilotons; Revenue, USD Million, 2021 - 2033)

Packaging

Textiles & Fibers

Automotive & Transportation

Consumer Goods & Electronics

Agriculture & Horticulture Films

Medical & Healthcare Products

Construction & Building Materials

Other Applications

End Use Outlook (Volume, Kilotons; Revenue, USD Million, 2021 - 2033)

Food & Beverage

Retail & Consumer Goods

Automotive & Aerospace

Healthcare

Agriculture

Industrial & Manufacturing

Other End Uses

Regional Outlook (Volume, Kilotons; Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Italy

Spain

Asia Pacific

China

India

Japan

South Korea

Australia

Latin America

Brazil

Argentina

Middle East & Africa

Saudi Arabia

South Africa

UAE

This report can be delivered to the clients within 8 Business Days

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