Bioplastics Market Size & Share Analysis - Growth Trends and Forecast (2026 - 2031)

> **Industry:** Polymers & Sustainable Chemicals (Chemicals & Materials)
> **Source:** https://www.mordorintelligence.com/industry-reports/bioplastics-market
> **Scraped Date:** 2026-09-17

Executive Market Summary

Market Metric	Details
Base Market Size	USD 180 million
Projected Forecast (2031)	USD 180 million
Growth Rate (CAGR)	17.33 %
Largest Market Region	N/A
Fastest-Growing Region	N/A

Market Visualizations & Infographics

Comprehensive Research Analysis

Overview Points List Flex 49 Share Feature End

Market Overview

Study Period	2021 - 2031
Market Volume (2026)	2.78 Million tons
Market Volume (2031)	6.18 Million tons
Growth Rate (2026 - 2031)	17.33 %
Fastest Growing Market	Asia Pacific
Largest Market	Asia Pacific
Market Concentration	Medium

Major Players*Disclaimer: Major Players sorted in no particular order

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Market Overview

Bioplastics Market Analysis by Mordor IntelligenceThe Bioplastics Market size is expected to increase from 2.37 Million tons in 2025 to 2.78 Million tons in 2026 and reach 6.18 Million tons by 2031, growing at a CAGR of 17.33% over 2026-2031. This growth stems from single-use-plastic bans in Europe and Asia, corporate net-zero targets that filter through supplier scorecards, and the rapid alignment of renewable-feedstock supply chains in Brazil, India, and Thailand. Capital spending is migrating toward Asia-Pacific, where tax holidays and land-lease incentives compress payback periods for new PLA and PHA lines. At the same time, North American and European innovators continue to file patents around heat-resistant PLA alloys and enzymatic recycling catalysts that promise to lower total life cycle emissions versus drop-in bio-PET. Price volatility remains the central risk because bioplastic resins command a 20%–40% premium over fossil LDPE when Brent crude trades below USD 80 per barrel, a level seen intermittently in 2024 and early 2025. These structural forces combine to accelerate capacity additions while exposing margin to crude oil downside.

Key Report Takeaways

* By polymer class, bio-based non-biodegradables captured 56.64% of the bioplastics market share in 2025, whereas bio-based biodegradables led growth at a 23.46% CAGR.
* By feedstock, sugarcane and sugar-beet inputs supplied 42.28% of global resin volumes in 2025; cellulosic and wood-waste streams are expanding at a 24.59% CAGR.
* By processing technology, extrusion held 46.94% of 2025 volumes, while 3D printing represents the fastest-growing route with a 22.88% CAGR to 2031.
* By application, flexible packaging commanded 26.65% of 2025 demand and is scaling at a 24.69% CAGR through 2031.
* By region, Asia-Pacific accounted for 47.75% of 2025 volumes and is projected to grow at a 22.51% CAGR, outpacing all other geographies.

Key Market Trends

Global Bioplastics Market Trends and InsightsDrivers Impact Analysis*

Drivers | (~) % Impact on CAGR Forecast | Geographic Relevance | Impact Timeline |
Single-use-plastic bans in Europe and Asia | +3.8% | Europe, India, Southeast Asia | Short term (≤ 2 years) |
Demand for sustainable packaging | +4.2% | Global, concentrated in North America and EU | Medium term (2-4 years) |
Corporate net-zero polymer procurement | +3.5% | Global, led by multinational CPG brands | Medium term (2-4 years) |
Recycling-compatibility incentives | +2.1% | Europe, Japan, South Korea | Long term (≥ 4 years) |
Availability of renewable feedstock | +2.9% | Brazil, India, Thailand, United States | Medium term (2-4 years) |
Source: Mordor Intelligence |

Competitive Landscape

Competitive Landscape

The bioplastics market is moderately consolidated, with leading players accounting for significant market share. However, no player exceeds a 10% individual share, leaving regional specialists ample room to penetrate niches. Integration is a strategic hedge: Braskem owns ethanol supply, while BASF’s biomass-balance credits allow renewable offerings without dedicated assets. Capacity is racing east

ward; TotalEnergies Corbion will double its Thai PLA line to 150 ktpa by 2028. Patent activity centers on high-heat PLA crystallization. ISO 17088, EN 13432, ISCC PLUS, and RSB certifications now function as go-to-market prerequisites; smaller fermentation startups struggle to fund compliance audits, meaning that technological prowess alone is insufficient without credible chain-of-custody documentation.

Bioplastics Industry Leaders* NatureWorks LLC

* TotalEnergies (Total Corbion)

* BASF

* Braskem

* Eni S.p.A. (Novamont)

* *Disclaimer: Major Players sorted in no particular order

Scope Methodology P Space

For this study, the bioplastics market is defined as the demand and supply of polymer materials that are bio-based, biodegradable, or both, which are sold as resins and compounds for conversion into finished plastic products across end uses.

Scope exclusions: We exclude fossil-based plastics and additives that only modify biodegradability, and we do not count recycling or reuse value generated after the first sale of bioplastic resin.

Segmentation Container

* By Type* Bio-based Biodegradables* Starch-based
* Polylactic Acid (PLA)
* Polyhydroxyalkanoates (PHA)
* Polyesters (PBS, PBAT, PCL)
* Other Bio-based Biodegradables

* Bio-based Non-biodegradables* Bio Polyethylene Terephthalate (PET)
* Bio Polyethylene
* Bio Polyamides
* Bio Polytrimethylene Terephthalate
* Other Bio-based Non-biodegradables

* By Feedstock* Sugarcane / Sugar Beet
* Corn
* Cassava and Potato
* Cellulosic and Wood Waste
* Others (Algae and Microbial Oil)

* By Processing Technology* Extrusion
* Injection Molding
* Blow Molding
* 3D Printing
* Others (Thermoforming, etc.)

* By Application* Flexible Packaging
* Rigid Packaging
* Automotive and Assembly Operations
* Agriculture and Horticulture
* Construction

* Textiles
* Electrical and Electronics
* Other Applications

* By Geography* Asia-Pacific* China
* India
* Japan
* South Korea
* Indonesia
* Thailand
* Rest of Asia-Pacific

* North America* United States
* Canada
* Mexico

* Europe* Germany
* United Kingdom
* Italy
* France
* Netherlands
* Spain
* Rest of Europe

* South America* Brazil
* Argentina
* Rest of South America

* Middle-East and Africa* Saudi Arabia
* United Arab Emirates
* South Africa
* Egypt
* Rest of Middle-East and Africa

Frequently Asked Questions

How large is the bioplastics market in 2026?

The bioplastics volume is estimated to reach 2.78 million tons in 2026 and is fo recasted to climb to 6.18 million tons by 2031 at a 17.33% CAGR.

Which polymer class currently leads global demand?

Bio-based non-biodegradables such as bio-PET and bio-PE held 56.64% bioplastics market share in 2025 thanks to seamless compatibility with legacy processing and recycling loops.

What feedstock shows the fastest growth outlook?

Cellulosic and wood-waste streams are expanding at a 24.59% CAGR as pulp mills c ommercialize lignocellulosic sugar platforms that reduce land-use-change concern s.

Which region will add the most new capacity through 2031?

Asia-Pacific, led by China, Thailand, and India, will grow the bioplastics marke t at 22.51% CAGR and attract the majority of announced PLA and PHA projects.

What remains the biggest barrier to wider adoption?

Price premiums of 20%–40% over fossil polymers persist when crude prices sit bel ow USD 80 per barrel, limiting uptake in price-sensitive segments absent policy

support.

Are composting facilities keeping pace with material rollout?

No, fewer than 500 EU plants accept certified plastics and collection covers only 38% of residents, creating an infrastructure bottleneck that undermines disposal claims.