

Bioplastics Packaging - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

Bioplastics Packaging Market Analysis

The bioplastic packaging market reached a valuation of USD 6.27 billion in 2025 and is projected to advance to USD 15.25 billion by 2030, expanding at a 20.67% CAGR during the forecast period. Rising Extended Producer Responsibility (EPR) fees, cost-efficient bio-feedstock processing, and consumer preference for low-carbon materials are redefining supplier economics across the bioplastic packaging market. New European Union recycling targets, India's traceability mandate, and China's express-parcel standards are synchronizing regulatory timetables, while large PLA and Bio-PET capacity additions in the United Arab Emirates and Thailand remove legacy supply constraints. Global food-service chains and luxury personal care brands now treat bioplastic formats as mainstream, accelerating innovation in coatings, multilayer films, and barrier performance. These converging forces confirm a structural shift in packaging material choice that favors renewable feedstocks over fossil-based polymers.

Global Bioplastics Packaging Market Trends and Insights

Global EPR legislation driving bio-based packaging adoption

Mandatory EPR schemes in California, the European Union, and Kenya internalize end-of-life costs, creating direct financial incentives to switch from conventional plastics to renewable alternatives. Producers now face differentiated fees based on recyclability, compostability, and recycled content, making bioplastic materials more cost-competitive in the bioplastic packaging

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market. Harmonized reporting deadlines beginning March 2025 simplify cross-border compliance, encouraging multinational brand owners to standardize sustainable formats. Fee modulation policies that penalize non-recyclable substrates further enlarge the addressable bioplastic packaging market. As regulatory timelines converge with the start-up of large PLA plants in Thailand and the UAE, predictable supply and lower prices reinforce adoption momentum.

Demand surge from multinational food-service chains

Leading restaurant brands accelerated trials and roll-outs of compostable formats, catalyzing new volume streams in the bioplastic packaging market. McDonald's cups now use a 50% biopolymer blend, while Starbucks has extended molded-fiber cold-cup pilots across several US states. These firms leverage procurement scale to compress per-unit resin costs and validate consumer acceptance. Operational benefits-simpler sorting, reduced landfill fees, and brand equity gains-reinforce repeat purchasing. Their rapid adoption signals to converters that bioplastic stock-keeping units can match the throughput of conventional substrates without retooling bottlenecks.

Chronic shortage of bio-based feedstock

Record ethanol runs in Brazil and rising US Renewable Fuel Standard volumes intensify feedstock competition, inflating corn and sugar prices that underpin PLA and Bio-PET production. Biofuel producers often win allocation battles thanks to legislated demand quotas and tax credits. While NatureWorks explores cassava and lignocellulosic routes, feedstock scarcity remains a structural headwind to the bioplastic packaging market until non-crop inputs reach scale.

Other drivers and restraints analyzed in the detailed report include:

Asia-Pacific policy shifts creating momentum / Capacity expansion in Bio-PET and PLA / Inconsistent industrial composting infrastructure /

For complete list of drivers and restraints, kindly check the Table Of Contents.

Segment Analysis

Bio-PET held 39.43% share of the bioplastic packaging market in 2024 as producers leveraged existing PET recycling streams for rapid drop-in substitution. The segment benefits from biomass-based PTA supply chains certified under ISCC PLUS. Coca-Cola's EUR 180 million European transition illustrates how large buyers exert downward pressure on resin premiums, supporting stable bioplastic packaging market size expansion. PHA, while only a niche share today, is forecast at 22.38% CAGR as consolidation stabilizes and specialty grades target marine-degradable applications.

Starch blends remain the volume leader among biodegradable polymers, with maize, potato, and cassava feedstocks offering price hedging flexibility. PLA capacity from Thailand and the UAE boosts regional supply, while PBAT and PBS gain traction in films requiring enhanced toughness at lower processing temperatures. Dual-sourcing strategies protect converters from resin volatility, keeping the bioplastic packaging market resilient to price shocks.

Flexible formats commanded 58.31% of 2024 revenue and are projected to lead at a 21.61% CAGR. Films, wraps, and pouches align well with the mechanical and barrier properties of PLA and Bio-PE. Nestle's CHF 120 million European retrofit shows the capital needed to switch over but also demonstrates consumer acceptance premiums that offset higher resin prices. Accredo's sugarcane-based pouch series underscores carbon-reduction gains that drive procurement decisions.

Rigid containers lag due to higher heat-deflection standards, yet multilayer PLA-cellulose structures now approach oxygen barrier

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levels suitable for ambient sauces. Technology spillover from flexible to rigid applications is narrowing the performance delta, opening new revenue pockets inside the broader bioplastic packaging market.

The Bioplastic Packaging Market Report is Segmented by Material Type (Non-Biodegradable Bioplastics, Biodegradable Bioplastics), Product Type (Rigid Packaging, Flexible Packaging), End-Use Industry (Food, Beverages, Pharmaceuticals, Personal Care and Cosmetics, Other End-Use Industry), Distribution Channel (Direct Sales, Indirect Sales), and Geography. The Market Forecasts are Provided in Terms of Value (USD).

Geography Analysis

Europe remained the largest regional contributor with 38.28% of the bioplastic packaging market in 2024, driven by the Packaging and Packaging Waste Regulation that mandates universal recyclability by 2030 and bans PFAS in food contact articles. Germany's VerpackG imposed EUR 2.1 billion EPR fees in 2024, prompting brand owners to select bio-based formats that earn 30% fee discounts. Southern Europe witnesses swift adoption in fresh-produce films, while Northern markets focus on rigid yoghurt cups that meet cold-chain specifications.

Asia-Pacific is the fastest-growing region, projected at 22.56% CAGR through 2030. India's traceability rule, China's GB 43352-2023, and Japanese government procurement of biodegradable alternatives align policy levers with investment stimuli. NatureWorks and Balrampur Chini Mills supply domestic converters, cutting freight costs and hedging against currency swings. Proximity to agricultural feedstocks positions ASEAN nations as strategic export bases to high-demand EU markets, amplifying the bioplastic packaging market size in the region.

North America shows robust momentum as California, Oregon, and Colorado finalize EPR fee schedules that escalate annually. Food-service pilot programs at McDonald's and Starbucks accelerate downstream converter qualifications. Federal grants worth USD 75 million for composting build-outs signal impending infrastructure parity, a critical enabler for bioplastic packaging market penetration beyond coastal cities. Canada and Mexico adopt harmonized labeling to protect cross-border supply chains, ensuring regulatory clarity for integrated brand roll-outs.

List of Companies Covered in this Report:

BIO PACKAGING FILMS / Folietec Kunststoffwerk AG / HUBEI HYF PACKAGING CO., LTD. / BIO FUTURA B.V. / PLABOTTLES.EU (GLOBAL SOLUTIONS B.V.) / FKUR KUNSTSTOFF GMBH / PACTIV EVERGREEN INC. / POUCH ME / GS-Company / GracePack / NaKu eU / Easy Green Eco Packaging Co., Ltd / Amcor Plc / PLAMFG / COMPAC SRL / Jarsking Group / Zhejiang Sanle Plastic Co.,Ltd / Shanghai COPAK Industry Co., LTD, / Greendot Biopak Pvt. Ltd. / Biogreen Biotech /

Additional Benefits:

The market estimate (ME) sheet in Excel format /
3 months of analyst support /

Table of Contents:

1 INTRODUCTION

1.1 Study Assumptions and Market Definition

1.2 Scope of the Study

2 RESEARCH METHODOLOGY

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3 EXECUTIVE SUMMARY

4 MARKET LANDSCAPE

4.1 Market Overview

4.2 Market Drivers

4.2.1 Global EPR Legislation Driving Bio-Based Packaging Adoption

4.2.2 Demand for bioplastic packaging surges as multinational food-service chains embrace compostable packaging

4.2.3 Asia-Pacific Policy Shifts Creating Momentum for Bioplastic Packaging

4.2.4 Expansion of global Bio-PET and PLA production is lowering cost barriers to adoption

4.2.5 Increasing adoption of bioplastic packaging among Luxury and personal care brands

4.2.6 Government Investment in Composting Infrastructure Accelerating Downstream Adoption

4.3 Market Restraints

4.3.1 Chronic shortage of bio-based feedstock owing to competing biofuel demand

4.3.2 Inconsistent industrial composting infrastructure hindering end-of-life claims

4.3.3 Functional performance limitations in high-temperature applications

4.4 Supply-Chain Analysis

4.5 Innovations in Bioplastics

4.6 Industry Ecosystem Analysis

4.7 Bioplastic - Production Landscape

4.8 Industry Standards and Regulations

4.9 Porter's Five Forces Analysis

4.9.1 Bargaining Power of Suppliers

4.9.2 Bargaining Power of Buyers

4.9.3 Threat of New Entrants

4.9.4 Threat of Substitute Products

4.9.5 Intensity of Competitive Rivalry

5 MARKET SIZE AND GROWTH FORECASTS (VALUE)

5.1 By Material Type

5.1.1 Non-Biodegradable Bioplastics

5.1.1.1 Bio-PET

5.1.1.2 Bio-PE

5.1.1.3 Other Non-Biodegradable Bioplastics

5.1.2 Biodegradable Bioplastics

5.1.2.1 Starch Blends

5.1.2.2 Polylactic Acid (PLA)

5.1.2.3 Poly(Butylene Adipate-co-Terephthalate) (PBAT)

5.1.2.4 Polybutylene Succinate (PBS)

5.1.2.5 Polyhydroxyalkanoates (PHA)

5.1.2.6 Other Biodegradable Bioplastics

5.2 By Product Type

5.2.1 Rigid Packaging

5.2.1.1 Bottles and Jars

5.2.1.2 Trays and Containers

5.2.1.3 Other Rigid Packaging

5.2.2 Flexible Packaging

5.2.2.1 Films and Wraps

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- 5.2.2.2 Pouches and Bags
- 5.2.2.3 Other Flexible Packaging
- 5.3 By End-Use Industry
 - 5.3.1 Food
 - 5.3.2 Beverages
 - 5.3.3 Pharmaceuticals
 - 5.3.4 Personal Care and Cosmetics
 - 5.3.5 Other End - Use Industry
- 5.4 By Distribution Channel
 - 5.4.1 Direct Sales
 - 5.4.2 Indirect Sales
- 5.5 By Geography
 - 5.5.1 North America
 - 5.5.1.1 United States
 - 5.5.1.2 Canada
 - 5.5.1.3 Mexico
 - 5.5.2 Europe
 - 5.5.2.1 Germany
 - 5.5.2.2 United Kingdom
 - 5.5.2.3 France
 - 5.5.2.4 Italy
 - 5.5.2.5 Spain
 - 5.5.2.6 Russia
 - 5.5.2.7 Rest of Europe
 - 5.5.3 Asia-Pacific
 - 5.5.3.1 China
 - 5.5.3.2 India
 - 5.5.3.3 Japan
 - 5.5.3.4 South Korea
 - 5.5.3.5 Australia and New Zealand
 - 5.5.3.6 Rest of Asia-Pacific
 - 5.5.4 Middle East and Africa
 - 5.5.4.1 Middle East
 - 5.5.4.1.1 United Arab Emirates
 - 5.5.4.1.2 Saudi Arabia
 - 5.5.4.1.3 Turkey
 - 5.5.4.1.4 Rest of Middle East
 - 5.5.4.2 Africa
 - 5.5.4.2.1 South Africa
 - 5.5.4.2.2 Nigeria
 - 5.5.4.2.3 Egypt
 - 5.5.4.2.4 Rest of Africa
 - 5.5.5 South America
 - 5.5.5.1 Brazil
 - 5.5.5.2 Argentina
 - 5.5.5.3 Rest of South America

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6 COMPETITIVE LANDSCAPE

6.1 Market Concentration

6.2 Strategic Moves and Developments

6.3 Market Share Analysis

6.4 Company Profiles (includes Global level Overview, Market level overview, Core Segments, Financials as available, Strategic Information, Market Rank/Share for key companies, Products and Services, and Recent Developments)

6.4.1 BIO PACKAGING FILMS

6.4.2 Folietec Kunststoffwerk AG

6.4.3 HUBEI HYF PACKAGING CO., LTD.

6.4.4 BIO FUTURA B.V.

6.4.5 PLABOTTLES.EU (GLOBAL SOLUTIONS B.V.)

6.4.6 FKUR KUNSTSTOFF GMBH

6.4.7 PACTIV EVERGREEN INC.

6.4.8 POUCH ME

6.4.9 GS-Company

6.4.10 GracePack

6.4.11 NaKu eU

6.4.12 Easy Green Eco Packaging Co., Ltd

6.4.13 Amcor Plc

6.4.14 PLAMFG

6.4.15 COMPAC SRL

6.4.16 Jarsking Group

6.4.17 Zhejiang Sanle Plastic Co.,Ltd

6.4.18 Shanghai COPAK Industry Co., LTD,

6.4.19 Greendot Biopak Pvt. Ltd.

6.4.20 Biogreen Biotech

7 MARKET OPPORTUNITIES AND FUTURE OUTLOOK

7.1 White-space and Unmet-need Assessment

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