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

Market Report | 2025-06-01 | 190 pages | Mordor Intelligence

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Report description:

Bioplastics Market Analysis

The global bioplastics market size reached 2.37 million tons in 2025 and is forecast to expand to 5.43 million tons by 2030, reflecting a compelling 17.25% CAGR across 2025-2030. Rising policy pressure, stronger corporate sustainability targets, and improving feedstock flexibility collectively propel this steep trajectory, and one outcome is that brand?owners are now budgeting for bio-based content as a line-item rather than an optional premium. A notable implication is that demand visibility is lengthening contract horizons, which underpins larger-scale capacity additions. Thus, the bioplastics industry is evolving from early-stage growth toward a more capital-intensive, industrial phase.

Global Bioplastics Market Trends and Insights

Mandate for Single-Use Plastic Bans Catalyzing Bio-Based Adoption

The PPWR takes effect in February 2025 and requires all packaging placed on the EU market to be recyclable by 2028, explicitly allowing bio-based plastics when mechanical recycling is impracticable. Producers view the rule as a demand guarantee for compostable coffee capsules, thin films, and barrier coatings where recycling economics are weak, and one immediate response has been fast-tracked certification programmes for food-contact PLA. Forward contracting for compliant material indicates that legislators are accelerating commercial timelines, and procurement teams now see regulatory alignment as a cost-avoidance strategy rather than a marketing add-on.

Growing Demand for Bioplastics in Packaging

Flexible packaging already accounts for one quarter of the overall bioplastics market size in 2024 and is projected to grow at 24.38% CAGR to 2030, making it both the largest and fastest-growing application. Brand owners cite shelf-life parity and improved sealability as decisive factors, and converters are redesigning laminates to remove aluminium layers in favour of bio-barrier coatings. This rapid uptake suggests that technical barriers once thought fundamental are now being treated as routine engineering challenges.

Availability of Cheaper Alternatives

Price-sensitive buyers in developing regions still opt for petro-plastics, yet rising landfill levies and emerging carbon taxes are eroding the headline price gap. Distributors observe that when extended producer responsibility fees are included, the total landed cost difference narrows further, especially for lightweight packaging. Consequently, economic tipping points vary by jurisdiction, indicating that cost parity is as much a policy question as a technology challenge.

Other drivers and restraints analyzed in the detailed report include:

Corporate Net-Zero Targets Accelerating Procurement / Environmental Factors Encouraging a Paradigm Shift / Performance Gap of Bio-PET vs. Petro-PET in High-Heat Applications /

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

Segment Analysis

Bio-based non-biodegradable plastics hold 56% bioplastics market share in 2024, largely due to Bio-PET and Bio-PE grades that fit straight into existing melt lines. Their dominance stems from performance familiarity, allowing brand owners to meet climate targets without re-engineering equipment. Nonetheless, the market shows a clear pivot toward biodegradable PLA and PHA, which log a forecast of 23.36% CAGR through 2030. As certification bodies clarify compostability standards, buyers increasingly segment applications by end-of-life outcome rather than by resin family alone.

Demand for biodegradable grades is moving fastest in food-service items, where mandated organic-waste streams favour compostable products. A practical takeaway is that material selection now factors in local waste infrastructure as much as mechanical properties. This dynamic suggests that regional policy divergences will shape future resin mixes, with certain cities prioritising composting and others doubling down on recycling.

Sugarcane and sugar beet supply 41% of total feedstock in 2024, offering reliable conversion routes to bioethanol and thereafter to bio-ethylene or PTA. Yet, cellulosic and wood waste inputs are climbing at 24.30% CAGR, and Origin Materials' commercial line converting forest-sector residue to intermediates underscores that non-food biomass is viable at scale.

Stakeholders note that multi-feedstock flexibility also hedges against supply shocks; if sugar yields falter, mills maintaining both bagasse and agricultural residue routes can redirect quickly. Such optionality is becoming an investment criterion in new plant design, pointing to a more resilient supply ecosystem.

The Bioplastics Market Report Segments the Industry by Type (Bio-Based Biodegradables and Bio-Based Non-Biodegradables), Feedstock (Sugarcane/Sugar Beet, Corn, Cassava and Potato, and More), Processing Technology (Extrusion, Injection Molding, Blow Molding, and More), Application (Flexible Packaging, Rigid Packaging, Automotive and Assembly Operations, and More), and

Geography (Asia-Pacific, North America, Europe, and More).

Geography Analysis

Asia accounted for 48% of the global bioplastics market size in 2024 and is on track for a 22.47% CAGR, effectively solidifying its leadership position each year. Thailand's new bio-ethylene complex, backed by Braskem and SCG Chemicals, nearly doubles regional bio-PE output and provides local converters with a stable domestic source. Financial incentives from several Asian governments accelerate plant approvals, and abundant agricultural residue streams reduce feedstock risk. These advantages encourage vertically integrated clusters that cut logistics costs and tighten supply chains.

Europe differentiates itself through stringent circular-economy regulations. The PPWR's recyclability mandate and national plastic taxes create a price signal favoring compostable and mechanically recyclable biopolymers. Companies are responding with innovations such as Futerro's RENEW PLA, which is fully recyclable through the LOOPLA process, offering an end-of-life route that aligns with EU objectives.

North America lags in absolute volume but shows momentum in advanced bio-polyesters and PHAs. Corporate sustainability goals, rather than national regulation, drive adoption, and the prevalence of private-sector initiatives yields a diverse portfolio of pilot plants. The

List of Companies Covered in this Report:

Arkema / BASF / BIOTEC Biologische Naturverpackungen GmbH & Co. KG. / Braskem / Danimer Scientific / Eni S.p.A. (Novamont) / FUTERRO / Indorama Ventures Public Company Limited / Minima / NatureWorks LLC / Rodenburg Biopolymers / TotalEnergies (Total Corbion) / Trinseo /

Additional Benefits:

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

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