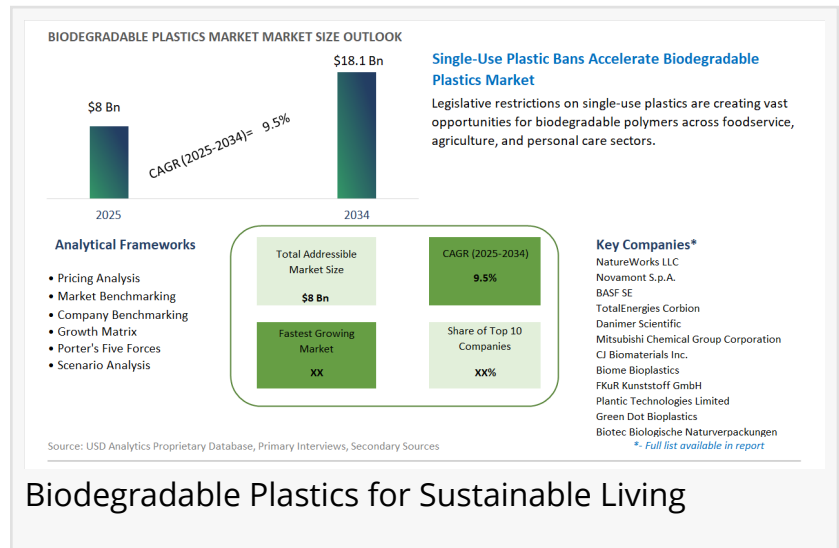


# Biodegradable Plastics Market to Reach \$18.1 Billion by 2034 on Sustainability and Innovation Boom

*Packaging, agriculture, and medical sectors are rapidly adopting biodegradable plastics to cut plastic pollution and meet regulations.*

HYDERABAD, TELENGANA, INDIA, July 21, 2025 /EINPresswire.com/ -- The [biodegradable plastics market](#) is projected to grow from USD 8.0 billion in 2025 to USD 18.1 billion by 2034, registering a CAGR of 9.5% over the forecast period. This growth is driven by global regulatory action, increasing consumer preference for sustainable plastics, and the accelerating shift toward bio-based, compostable alternatives in packaging, agriculture, consumer goods, and healthcare sectors. Download a free sample □ [Biodegradable Plastics Market Report](#)



“

Biodegradable plastics are a game-changer for brands looking to combine performance, safety, and sustainability.”

*Harry, USDAnalytics*

## Compostable Plastics and Regulatory Momentum Drive Market Transformation

As governments worldwide introduce stricter bans on conventional plastics and promote green materials, demand for biodegradable plastics—including PLA (Polylactic Acid), PHA (Polyhydroxyalkanoates), PBAT (Polybutylene Adipate Terephthalate), and starch blends—has surged. These materials are replacing fossil-based counterparts in key applications such as rigid and

flexible packaging, disposable consumer goods, horticultural films, and medical disposables. PLA continues to lead in rigid packaging and food serviceware, thanks to cost-effective sourcing and industrial compostability. PHA is gaining rapid traction in marine-safe products, while PBAT and PBS are emerging as preferred materials for flexible films in packaging and agriculture. The market is further benefiting from technological innovations such as enzyme-embedded PLA for accelerated degradation and ocean-degradable PHA, enabling applications in smart packaging

and fishing gear.

#### Regional Overview: Innovation and Production Power Global Growth

- China: Remains the world's largest producer of biodegradable plastics, scaling up facilities and exporting to global packaging markets.
- Europe: Leads regulatory enforcement and product innovation, supported by the EU's compostability standards and circular economy targets.
- United States & Asia-Pacific: Investing heavily in commercial-scale manufacturing and research in biodegradable films and medical-grade bioplastics.
- Global Outlook: These regions collectively define policy direction, innovation trends, and industrial scale in the biodegradable plastics ecosystem.

Geographically, the detailed analysis of market share, and growth rate of the following regions:

- North America (US, Canada, Mexico)
- Europe (Germany, UK, France, Spain, Italy, Russia, Rest of Europe)
- Asia Pacific (China, India, Japan, South Korea, Australia, South East Asia, Rest of Asia)
- South America (Brazil, Argentina, Rest of South America)
- Middle East and Africa (Saudi Arabia, UAE, Rest of Middle East, South Africa, Egypt, Rest of Africa)

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#### Competitive Landscape: Technology-Driven Players Expand Across Segments

Market leaders are investing in breakthrough formulations, scaling production, and forming global partnerships to meet the surging demand for sustainable polymers. NatureWorks LLC continues to dominate in PLA, with expanding operations in North America and Southeast Asia. Novamont S.p.A. and BASF SE are at the forefront of compostable packaging and starch blend innovation, while TotalEnergies Corbion focuses on closed-loop PLA systems with full life cycle traceability.

Companies like Danimer Scientific, CJ Biomaterials, and Biome Bioplastics are pioneering PHA- and PBAT-based marine degradable materials, while FKUR Kunststoff GmbH, Plantic Technologies, and Green Dot Bioplastics deliver specialty blends tailored to food packaging and agriculture. Emerging innovators such as Biotec, Polymateria Ltd., and Avani Eco are gaining traction with advanced degradation technologies and smart biomaterials that align with evolving global sustainability standards.

#### Key Companies in the Biodegradable Plastics Market:

- NatureWorks LLC
- Novamont S.p.A.
- BASF SE
- TotalEnergies Corbion
- Danimer Scientific
- Mitsubishi Chemical Group Corporation

- CJ Biomaterials Inc.
- Biome Bioplastics
- FKUR Kunststoff GmbH
- Plantic Technologies Limited
- Green Dot Bioplastics
- Biotec Biologische Naturverpackungen GmbH & Co. KG
- KANEKA Corporation
- Polymateria Ltd.
- Avani Eco
- Others

#### Market Segmentation Highlights:

- By Type:

PLA, PHA, PBAT, PBS & PBSA, TPS (Starch Blends), Cellulose-based Plastics, PCL, Others

- By Application:

- o Packaging: Flexible, Rigid
- o Agriculture & Horticulture
- o Consumer Goods: Tableware, Personal Care
- o Textiles: Medical & Hygiene, Apparel
- o Medical & Healthcare
- o Others

- By Raw Material:

Sugarcane, Corn Starch, Cellulose, Vegetable Oils, Lignin, Algae, Waste Streams, Fossil-based, Others

Packaging continues to lead market demand, followed by rapid adoption in agriculture, consumer goods, textiles, and medical applications, as industries seek to replace traditional plastics with eco-friendly, high-performance alternatives.

Access the Complete report with in-depth data and forecasts: [Biodegradable Plastics Market, 2025-2034](#)

As biodegradable plastics evolve from niche materials into core components of global packaging and industrial systems, the market stands at the forefront of the sustainability revolution. With strong regulatory support, breakthrough technologies, and rising consumer preference for compostable, marine-safe plastics, the next decade will reshape how industries think about materials and waste.

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