

Biodegradable Packaging Materials Market to Exceed \$242 Billion by 2034 on Sustainability Surge

Food, personal care, healthcare, and e-commerce industries lead demand for biodegradable packaging materials worldwide.

HYDERABAD, TELENGANA, INDIA, July 21, 2025 /EINPresswire.com/ -- The global [Biodegradable Packaging Materials Market](#) is forecast to grow from USD 142.2 billion in 2025 to USD 242.3 billion by 2034, registering a steady CAGR of 6.1%, according to the latest insights from USDAnalytics. This growth is being driven by tightening environmental regulations, rapid innovation in biodegradable packaging technologies, and strong uptake across industries seeking sustainable, circular packaging alternatives.

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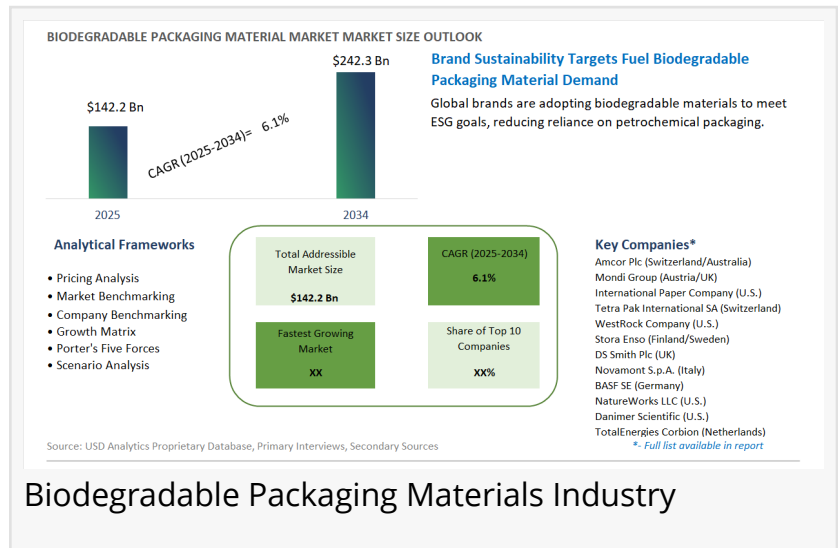
Biodegradable materials are now the core of packaging innovation for brands meeting global sustainability targets."

Harry, USDAnalytics

Eco-Innovation and Regulatory Mandates Power Market Expansion

The transition toward biodegradable packaging materials is accelerating as industries respond to global pressure to eliminate plastic waste and align with circular economy targets. Compostable, bio-based, and eco-friendly packaging solutions are becoming the new standard in packaging design, replacing conventional plastics across

food & beverage, personal care, healthcare, homecare, agriculture, and e-commerce sectors. Key biodegradable packaging materials include Kraft paper, corrugated board, molded pulp, bagasse, and bioplastics such as PLA (Polylactic Acid), PHA (Polyhydroxyalkanoates), and PBAT (Polybutylene Adipate Terephthalate). Emerging innovations like seaweed-based films, mushroom-derived rigid structures, and alginate coatings are reshaping the industry by offering marine-safe, edible, and highly sustainable alternatives. Digital watermarking and intelligent



packaging are also entering the spotlight, enabling improved recyclability and traceability across the supply chain.

Global Leaders Transforming the Market Landscape

- China: Leads in manufacturing capacity and export of molded pulp, paperboard, and bioplastic packaging.
- United States: Investing heavily in PHA-based innovations, smart compostable films, and digital sorting technologies for post-consumer waste.
- Germany: Driving EU regulatory leadership and packaging material R&D, especially in biodegradable coatings and fiber-based solutions.
- Italy & the Netherlands: Supporting compostable innovation through strong infrastructure, public-private R&D collaborations, and circular economy policy alignment.

These nations represent the backbone of the global biodegradable packaging materials market, delivering the production scale, policy leadership, and research needed to mainstream compostable packaging.

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: Fiber Innovators and Bioplastic Pioneers Redefine Packaging

Industry leaders such as Amcor Plc, Mondi Group, Tetra Pak, WestRock, Stora Enso, and Smurfit Kappa are integrating Kraft paper, corrugated board, and molded pulp into consumer and industrial packaging solutions. Biopolymer trailblazers like NatureWorks LLC, TotalEnergies Corbion, Danimer Scientific, and Novamont S.p.A. are advancing PLA, PHA, and PBAT films that meet compostability certifications and deliver high-performance functionality.

A new generation of companies—Notpla, Sulapac, Chuk (Yash Pakka Ltd.), Pakka Ltd., Avani Eco, and Ecoware—are pushing boundaries with seaweed packaging, home-compostable rigid formats, and biodegradable materials tailored for e-commerce, cosmetics, and takeaway foodservice. Their solutions offer low environmental impact, reduced emissions, and compliance with evolving sustainability mandates.

Key Companies in the Biodegradable Packaging Materials Market:

- Amcor Plc (Switzerland/Australia)
- Mondi Group (Austria/UK)
- International Paper Company (U.S.)
- Tetra Pak International SA (Switzerland)
- WestRock Company (U.S.)

- Stora Enso (Finland/Sweden)
- DS Smith Plc (UK)
- Novamont S.p.A. (Italy)
- BASF SE (Germany)
- NatureWorks LLC (U.S.)
- Danimer Scientific (U.S.)
- TotalEnergies Corbion (Netherlands)
- Braskem S.A. (Brazil)
- Huhtamaki Oyj (Finland)
- Smurfit Kappa Group Plc (Ireland)
- Sealed Air Corporation (U.S.)
- Alpla Group (Austria)
- Constantia Flexibles (Austria)
- Plantic Technologies Limited (Australia)
- Ecoware (India)
- Pakka Ltd. (India/Switzerland)
- BioPak India (Huhtamaki Oyj subsidiary) (India/Finland)
- Chuk (Yash Pakka Ltd.) (India)
- Kruger Inc. (Canada)
- Notpla (UK)
- Sulapac (Finland)
- Avani Eco (Indonesia)
- Green Dot Bioplastics (U.S.)
- Elevate Packaging (U.S.)
- Others

Market Segmentation Highlights:

- By Material Type: Kraft Paper, Corrugated Board, Cartonboard, Molded Pulp, Specialty Papers, Recycled Paper, Bagasse-based
 - By Biodegradable Plastics: PLA, PHA, PBAT, PBS, TPS, Cellulose-based Plastics, PCL
 - By Emerging Materials: Seaweed-based, Mushroom-based, Alginate-based, Protein-based, Wood-based
 - By Packaging Format: Flexible Packaging, Rigid Packaging
 - By End-Use Industry: Food & Beverages, Personal Care & Cosmetics, Healthcare & Pharmaceuticals, Homecare, Agriculture & Horticulture, E-commerce & Retail
- Food & beverage, personal care, healthcare, and retail sectors are leading adoption, with biodegradable packaging materials becoming essential for brands to meet ESG commitments and global sustainability goals.

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

Thank you for reading this article. You can also get individual chapter-wise sections or region-specific report versions, such as North America, Europe, LATAM, or Southeast Asia, as well as

country-level customizations.

USDAnalytics

This report is developed by USDAnalytics, a specialized analytics platform offering deep insights into biodegradable packaging trends, regulatory tracking, innovation pipelines, and competitive benchmarking. USDAnalytics enables businesses to align with environmental mandates, discover emerging materials like seaweed films and alginate coatings, and stay ahead of policy-driven shifts in packaging. Explore advanced dashboards, real-time data, and industry reports at www.usdanalytics.com.

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