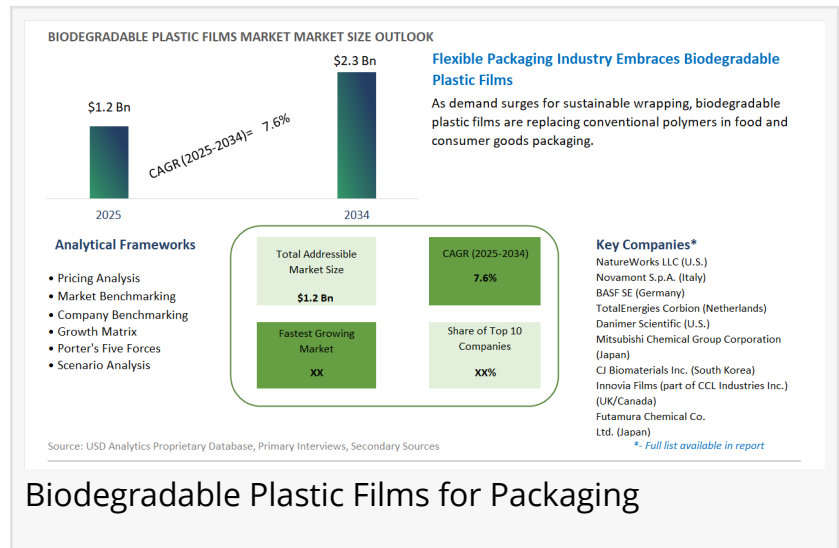


Biodegradable Plastic Films Market to Double by 2034 on Surge in Compostable Packaging Demand

Compostable and marine-degradable films see strong growth in food, agriculture, and e-commerce packaging.

HYDERABAD, TELENGANA, INDIA, July 21, 2025 /EINPresswire.com/ -- July 21, 2025 – The [Biodegradable Plastic Films Market](#) is expected to grow from USD 1.2 billion in 2025 to USD 2.3 billion by 2034, registering a steady CAGR of 7.6% during the forecast period, according to insights from USDAnalytics. The rapid expansion is driven by stringent global regulations on single-use plastics, rising eco-conscious consumer demand, and technological breakthroughs in PLA films, PHA films, and starch-based biodegradable films.



Biodegradable Plastic Films for Packaging



Biodegradable plastic films are transforming packaging, agriculture, and e-commerce for a more sustainable tomorrow."

Harry, USDAnalytics

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Innovation in Biodegradable Film Technologies Unlocks New Opportunities

Leading innovations in biodegradable plastic films include Polylactic Acid (PLA) and Polyhydroxyalkanoates (PHA) films that offer compostability, strength, and safety for food & beverage packaging, agriculture films, medical

films, and personal care applications. PLA dominates the market for cost-effective, high-barrier applications, while PHA is witnessing fast growth due to its marine degradability and home compostability.

Additionally, starch blends, cellulose-based films, biodegradable polyesters, and Polyvinyl Alcohol (PVA) are gaining traction for sustainable alternatives to conventional plastic bags, wrapping films, and agricultural mulch. These materials support a circular packaging model,

reducing landfill waste and microplastic pollution.

Emerging Trend: E-commerce Accelerates Compostable Film Adoption

A significant market opportunity is unfolding in e-commerce and omnichannel retail, where brands are replacing polyethylene mailers and wrapping films with compostable, flexible biodegradable plastic films. The growing emphasis on sustainable branding and plastic-free commitments is fueling demand for multilayer biodegradable laminates and barrier films in both primary and secondary packaging. This shift opens a multi-billion-dollar innovation pathway for film producers specializing in smart, printable, and home-compostable packaging formats.

Market Segmentation Overview

- By Material Type:

Polylactic Acid (PLA) Films, Polyhydroxyalkanoates (PHA) Films, Biodegradable Polyesters (Fossil-based or Partially Bio-based), Starch-Based Blends Films, Cellulose-Based Films (Regenerated Cellulose), Polyvinyl Alcohol (PVA) Films, Others

- By Application:

Bags, Wrapping Films, Liners, Sheets, Others

- By End-User:

Food & Beverage, Healthcare, Agriculture, Personal Care & Cosmetics, Electrical & Electronics, Others

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Regional Insights: Asia-Pacific Leads, Europe Drives Policy, U.S. Innovates

- China leads global production with over 1.2 million metric tons of biodegradable film capacity. Government mandates, such as the 30% biodegradable packaging requirement by 2025, are propelling mass-scale adoption. Companies like Kingfa Sci. & Tech. Co., Ltd. and BBKA Biochemical are expanding capacity to meet demand in food, agriculture, and e-commerce.
- United States is focusing on innovation with support from state regulations like California SB 54. Firms such as NatureWorks LLC, Danimer Scientific, and Cortec Corporation are developing next-gen PLA and multi-layer biodegradable plastic films.
- Germany, Italy, and the Netherlands play a central role in innovation and regulation under the EU PPWR, driving compostable film adoption across sectors.
- India, Brazil, and South Korea are rapidly building production ecosystems with an emphasis on bio-feedstock utilization, affordability, and export-oriented growth.

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)

Top Companies Operating in the Biodegradable Plastic Films Market

The global market features a mix of legacy players and emerging innovators, including:

- NatureWorks LLC (U.S.)
- Novamont S.p.A. (Italy)
- BASF SE (Germany)
- TotalEnergies Corbion (Netherlands)
- Danimer Scientific (U.S.)
- Mitsubishi Chemical Group Corporation (Japan)
- CJ Biomaterials Inc. (South Korea)
- Innovia Films (part of CCL Industries Inc.) (UK/Canada)
- Futamura Chemical Co., Ltd. (Japan)
- FKuR Kunststoff GmbH (Germany)
- Green Dot Bioplastics (U.S.)
- Plantic Technologies Limited (Australia)
- Taghleef Industries (Ti) (UAE)
- BioBag International AS (Norway)
- TIPA Corp. (Israel)
- Kaneka Corporation (Japan)
- Cortec Corporation (U.S.)
- Kingfa Sci. & Tech. Co., Ltd. (China)
- Amtrex Nature Care Pvt. Ltd. (India)
- Polymateria Ltd. (UK)

Many of these firms are investing in R&D partnerships, capacity expansion, and bio-feedstock supply chain optimization to meet the surge in demand for compostable packaging solutions.

Access the Complete report with in-depth data and forecasts: [Biodegradable Plastic Films 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 press release is supported by in-depth insights from USDAnalytics, a premier sustainability intelligence platform focused on biodegradable materials, circular packaging solutions, and global regulatory compliance. USDAnalytics empowers companies, governments, and research institutions with actionable data on eco-packaging innovations, bioplastics trends, and global production dynamics. To explore more reports and dashboards, visit www.usdanalytics.com.

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