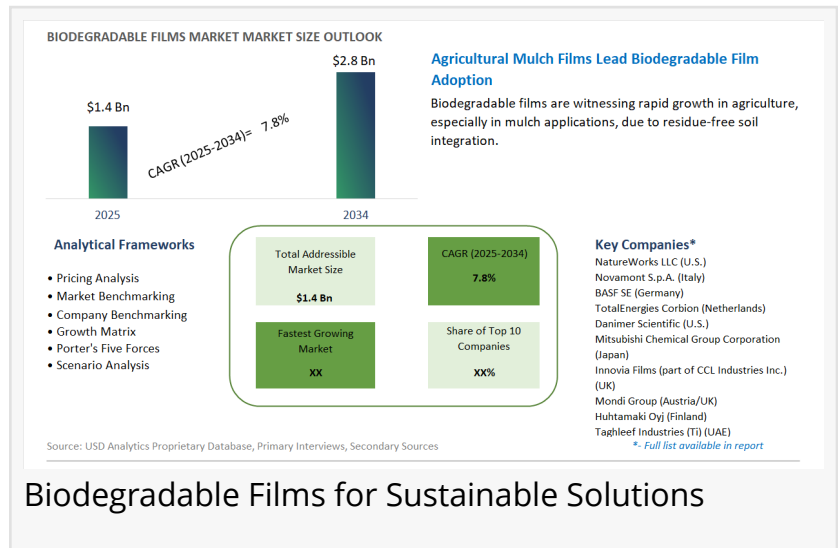


Biodegradable Films Market to Hit \$2.8 Billion by 2034 as Compostable Solutions Become Mainstream

Biodegradable films for packaging, agriculture, and medical uses are seeing rapid adoption thanks to new regulations and eco-trends.

HYDERABAD, TELENGANA, INDIA, July 21, 2025 /EINPresswire.com/ -- July 21, 2025 – The [Biodegradable Films Market](#) is projected to grow from USD 1.4 billion in 2025 to USD 2.8 billion by 2034, expanding at a CAGR of 7.8%. This growth is underpinned by increasing bans on single-use plastics, stringent packaging regulations, and a rapid shift by manufacturers toward eco-friendly film solutions for packaging, agriculture, and healthcare applications.



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Biodegradable films now set the standard for brands pursuing responsible packaging and agriculture.”

Harry, USDAnalytics

PLA and PHA Films Lead Global Adoption of Sustainable Film Solutions
Polylactic Acid (PLA) films continue to dominate the biodegradable films market due to their availability, compostability, and compatibility with industrial systems. Meanwhile, Polyhydroxyalkanoates (PHA) films are gaining attention for their marine biodegradability and flexibility,

making them ideal for packaging and aquatic use.

Other key materials include:

- Starch-based films for affordable, home-compostable uses
- Biodegradable polyesters (e.g., PBAT) for stretch and durability
- Cellulose-based films for high-transparency food packaging
- Polyvinyl Alcohol (PVA) films for water-soluble applications

These films are increasingly applied in packaging, agricultural mulch, and medical-grade hygiene

products, offering both performance and biodegradability.

Market Segmentation Snapshot

- By Material Type: PLA, Starch-Based, PHA, Biodegradable Polyesters, Cellulose-Based, PVA, Others

- By Film Structure: Mono-layer Films, Multi-layer Films, Coated Films

- By Application: Packaging | Agriculture & Horticulture | Hygiene & Medical | Others

Packaging remains the largest segment, followed by growing usage in agriculture (mulch films, seed wraps) and hygiene (wound dressings, surgical covers), especially in regions enforcing plastic bans.

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Regional Landscape: Asia Pacific, Europe, and U.S. Lead Global Growth

Asia Pacific leads global biodegradable film production, driven by China's mass manufacturing of PLA and starch-based films and Japan's innovation in PHA and PVA-based materials. South Korea continues to expand domestic R&D through chemical conglomerates like LG Chem and CJ Biomaterials.

Europe, led by Germany, Italy, and the Nordic countries, remains at the forefront of regulatory innovation and compostable film certifications. The EU PPWR regulation is a major catalyst for switching from PE and PVC films to biodegradable alternatives.

In North America, the United States is rapidly scaling investments in bio-based film capacity, with states like California, Oregon, and New York enforcing mandates that encourage the use of compostable films in foodservice, retail, and healthcare packaging.

Together, these regions are transforming biodegradable films from a niche alternative into a global sustainability standard, backed by legislation, consumer demand, and technological readiness.

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 Players Driving Innovation in Biodegradable Films

Major companies are expanding production, forging strategic alliances, and launching high-performance biodegradable film products across segments:

- NatureWorks LLC (U.S.) – Global leader in PLA film production
- Novamont S.p.A. (Italy) – Pioneer in biodegradable PBAT-based films
- TotalEnergies Corbion (Netherlands) – Scaling PLA film capacity
- BASF SE (Germany) – Investing in flexible packaging films

- Danimer Scientific (U.S.) – Innovator in marine-safe PHA films
- Mitsubishi Chemical Group Corporation (Japan) – Diversifying film portfolio
- Huhtamaki Oyj, Amcor Plc, and Mondi Group – Offering coated and multilayer biodegradable films for retail and foodservice
- Polymateria Ltd., CJ Biomaterials, Tipa Corp., and others are at the frontier of compostable multilayer films and specialty film innovations

For full access to the complete report with in-depth data and forecasts, visit: [Biodegradable 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.

About USDAnalytics

This research is powered by USDAnalytics, an advanced sustainability intelligence platform that tracks global shifts in biodegradable materials, regulatory frameworks, and market opportunities. It delivers real-time insights, legislative mapping, and performance benchmarking to help enterprises and investors make data-driven sustainability decisions. Explore more at www.usdanalytics.com.

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