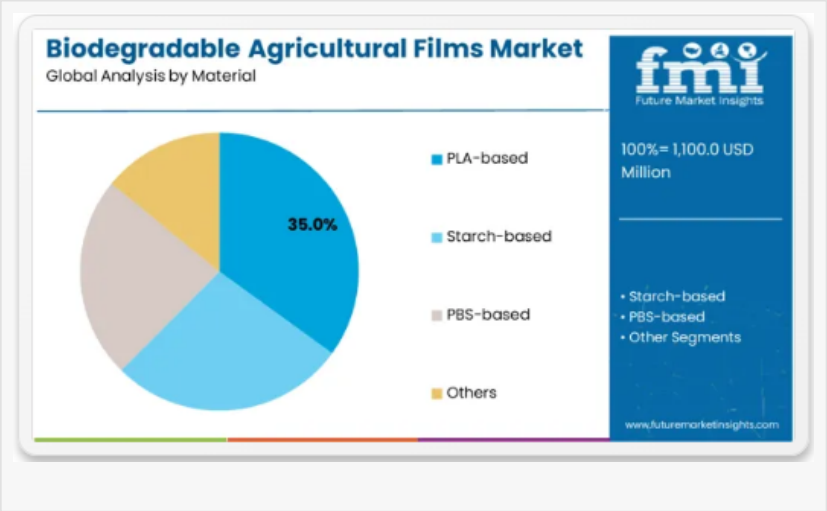
Biodegradable Agricultural Films Market to Reach USD 3.5 Bn by 2035 — APAC, USA & Saudi Arabia Drive Eco-Farming Shift

Biodegradable agricultural films industry is entering a period of sustained growth anchored by sustainable farming practices and material innovation.



NEWARK, DE, UNITED STATES, November 11, 2025 / EINPresswire.com/ -- In the evolving landscape of sustainable agriculture, the global biodegradable agricultural films market is capturing strong momentum. Estimated at USD 1,100 million in 2025, the market is projected to reach USD 1,973.6 million by 2035, representing a compound annual growth rate (CAGR) of approximately 6.0 % over the forecast period. With increasing environmental scrutiny of conventional plastic films, farmers and suppliers alike are shifting toward biodegradable solutions such as polylactic acid (PLA)-based, starch-based and PBS-based films that degrade naturally in soil and reduce long-term residue.

Key Market Insights at a Glance

The market value is forecast to grow from USD 1,100 million in 2025 to USD 1,973.6 million by 2035 — an increase of about USD 873.6 million over the decade.
PLA-based films account for the largest material segment, securing approximately 35 % share in 2025.
Among application types, mulching films dominate with roughly 45 % share of the market in 2025.
Growth is being driven by tighter regulations on plastic use in agriculture, rising consumer demand for sustainably grown produce, and increased adoption of sustainable farming practices.

The acceleration in the latter half of the forecast period (2030-2035) is anticipated to contribute more than half of the total growth, indicating maturing demand and technology deployment.

Regional Value Paragraph

In the region, the Asia Pacific market is emerging as the powerhouse for biodegradable agricultural films, with early-stage adoption and strong regulatory tailwinds creating a compelling opportunity. Meanwhile, North America and Europe continue to maintain steady progress, backed by regulatory frameworks and sustainability agendas, whereas Latin America, Middle East & Africa regions offer high-potential but untapped pockets of growth as awareness and infrastructure evolve.

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Regional Overview

In Asia Pacific, high-volume agriculture, growing awareness about soil plastic contamination, and a push for environmentally friendly farming underpin robust growth. Europe and North America follow with moderate growth driven by regulatory mandates, consumer preferences and innovations in biodegradable polymers. In contrast, Latin America and the Middle East & Africa are early in their adoption curve but present incremental opportunities as farm mechanisation and sustainable input adoption increase.

Competitive Landscape

The market features both traditional film manufacturers and rising specialists in biodegradable and compostable polymer technologies. Firms are repositioning from conventional polyethylene film production toward advanced biodegradable alternatives. Strategic initiatives include joint ventures, licensing agreements, and expansion of manufacturing capacities to meet rising demand and offer differentiated product portfolios. The competitive dynamic is evolving—from cost-led competition to value-led differentiation through eco-credentials, soil-compatibility and full-life-cycle sustainability claims.

Segment Overview

Material Type: PLA-based films dominate the market with ~35 % share in 2025, followed by starch-based and PBS-based alternatives.
Application Type: Mulching remains the largest segment (≈45 %) as farmers seek both yield enhancement and sustainability. Greenhouse and silage applications are also gaining traction as biodegradable alternatives become cost-competitive.

End-Use Crop Type: Vegetables & fruits lead the adoption of biodegradable films due to premium produce positioning and sustainability premiums. Grains & cereals and oilseeds & pulses are gradually shifting toward biodegradable alternatives as regulatory and consumer

pressures increase.

Market Outlook: Powering the Next Decade

Over the next decade, the biodegradable agricultural films market is expected to undergo substantial transformation. Forces driving this outlook include:

Regulatory momentum restricting traditional plastic films and encouraging compostable/biodegradable alternatives.
Consumer and retailer demand for sustainably produced agricultural goods, pressuring supply chains to adopt low-residue farming inputs.
Material innovation delivering cost-performance parity and end-of-life benefits for biodegradable films, making adoption more feasible at scale.
Geographic expansion into high-volume agriculture regions as farm economics align and infrastructure supports new film technologies.
Consequently, the market shift will move from niche premium products toward mainstream input across regions, and adoption will widen from high-value crops to broad-acre use.

Key Players of Sustainable Label Industry

Notable companies active in the space include major chemical and agricultural film manufacturers that have invested in biodegradable solutions. Key players are focusing on capacity expansions, material innovations, and partnerships across the value chain to secure long-term competitive advantage. Their strategic focus ranges from polymer innovation (e.g., PLA, PBS, starch-based blends) to full-service film solutions designed for ease of farmer adoption and end-of-life disposal.

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Recent Strategic Developments

Recent moves in the market underscore the shift toward biodegradability:

Expansion of manufacturing capacity for home- and industrial-compostable bio-films to serve agricultural markets.
Partnerships between film producers and agricultural technology providers to deliver combined value propositions (farming performance + sustainability).
Launches of new biodegradable mulch film grades targeted at high-yield horticulture and greenhouse uses.
Moves by traditional film companies to retrofit existing polyethylene film lines or enter licensing agreements for biodegradable formulations.

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