

# **Biodegradable Stretch Film Market Size, Share & Trends Analysis Report By Material Type (PLA, PHA, Starch-based Films), By Transparency Type, By Thickness, By Application Method, By End-use (Food & Beverage, Pharmaceutical), By Region, And Segment Forecasts, 2025 - 2030**

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## **Abstracts**

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### **Biodegradable Stretch Film Market Growth & Trends**

The global biodegradable stretch film market size is anticipated to reach USD 2.61 billion by 2030 and is projected to grow at a CAGR of 12.4% from 2025 to 2030, according to a new report by Grand View Research, Inc. The market has emerged as a crucial segment within the global sustainable packaging ecosystem, underpinned by the rising urgency to reduce plastic pollution and adopt eco-conscious alternatives.

Biodegradable stretch films, formulated from renewable sources such as PLA, PBAT, starch blends, and PHA, are gaining widespread acceptance across logistics, food, agriculture, and pharmaceutical sectors. Their ability to provide essential load stability, moisture resistance, and puncture durability, while ensuring minimal environmental impact, positions them as a smart replacement for conventional polyethylene films. As governments and multinational corporations accelerate plastic phase-out strategies, biodegradable stretch films are becoming an integral solution for achieving ESG benchmarks and regulatory compliance in packaging operations.

A primary driver behind the growing adoption of biodegradable stretch films is the global

shift in consumer and corporate preferences toward sustainable packaging. These films provide a unique blend of performance and environmental stewardship, appealing to businesses looking to align with green supply chain models. In particular, advancements in biodegradable polymer technologies have led to the development of high-strength, machine-compatible films that rival traditional plastic options in functionality.

Industries like food and beverage and e-commerce are increasingly integrating these films into secondary packaging and palletization processes, driven by regulatory mandates and brand positioning strategies. Moreover, the scalability of bio-based resin production and decreasing cost differentials are expected to further support long-term growth in both developed and emerging economies.

The market players are focusing on various strategic initiatives such as mergers, acquisitions, and collaborations. For instance, in June 2024, Windak introduced its new biodegradable stretch wrap designed for sustainable cable packaging. The company also showcased its latest innovation, the Automatic Reel Handling System, which enables seamless in-line packaging and rewinding.

#### Biodegradable Stretch Film Market Report Highlights

Based on material type, PHA held the largest share, accumulating a USD 569.24 million market size in 2024.

Based on transparency type, opaque films dominated the segment in terms of revenue in 2024.

Based on thickness, thin films (up to 20 microns) held the largest share of 48.11% in 2024.

Based on application method, the manual led the segment with a share of 58.60% in 2024.

Based on end use, food and beverage accounted for the largest share of 33.47% market size in 2024.

Asia Pacific dominated the biodegradable stretch film market. Surging intra-regional trade and rapid expansion of e-commerce fulfillment centers in Asia Pacific are fueling demand for sustainable pallet unitization solutions.

China was the leading biodegradable stretch film market in the Asia Pacific region and captured around 33% of the revenue market share in 2024 in this region.

### **Companies Mentioned**

TIPA Corp  
Futamura  
BioBag  
Paragon Films  
Berry Global  
Armando Alvarez  
RKW Group  
Polystar Plastics

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