

Global Bio-polylactic Acid (PLA) Films Market Growth 2025-2031

<https://marketpublishers.com/r/G22F449AC544EN.html>

Date: October 2025

Pages: 88

Price: US\$ 3,660.00 (Single User License)

ID: G22F449AC544EN

Abstracts

The global Bio-polylactic Acid (PLA) Films market size is predicted to grow from US\$ 609 million in 2025 to US\$ 994 million in 2031; it is expected to grow at a CAGR of 8.5% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

The use of bio-based materials as food packaging materials is on a continuous rise, owing to their advantages over fossil-based plastics, such as use of renewable resources in their production and, in many cases, the biodegradability and/or compostability of the finished product, which offers an alternative to disposal in landfills. The most common bio-based plastic synthesized from bio-based monomer is polylactic acid.

PLA is an aliphatic polyester produced by the polymerization of lactic acid (2-hydroxypropionic acid). Lactic acid can be produced synthetically from hydrogen cyanide and acetaldehyde, or naturally by anaerobic fermentation by bacteria or certain fungi of carbon substrates, either pure (e.g., glucose and sucrose) or impure (e.g., starch). Bio-PLA films can hold creases or twists, a property normally lacking in plastic films. The physical properties of PLA make it an ideal candidate for replacement of fossil-based plastics in several application areas of low-density polyethylene (LDPE), high-density polyethylene (HDPE), polypropylene (PP), and polyethylene terephthalate (PET).

Positive growth indicators in the food & beverage industry and increase in demand for

food packaging for prolonged preservation drive the bio-PLA films market. Moreover, rapid adoption of these films as a synthetic plastic in agricultural applications, such as cultivation of soft fruits and vegetables, has reduced harsh environmental impacts, leading to market growth. However, high product cost in comparison with synthetic and semi-synthetic films restrains the growth. In addition, relatively low vapor barrier and mechanical properties of the product may hamper industry growth in the future.

LP Information, Inc. (LPI) ' newest research report, the ?Bio-polylactic Acid (PLA) Films Industry Forecast? looks at past sales and reviews total world Bio-polylactic Acid (PLA) Films sales in 2024, providing a comprehensive analysis by region and market sector of projected Bio-polylactic Acid (PLA) Films sales for 2025 through 2031. With Bio-polylactic Acid (PLA) Films sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Bio-polylactic Acid (PLA) Films industry.

This Insight Report provides a comprehensive analysis of the global Bio-polylactic Acid (PLA) Films landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Bio-polylactic Acid (PLA) Films portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global Bio-polylactic Acid (PLA) Films market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Bio-polylactic Acid (PLA) Films and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Bio-polylactic Acid (PLA) Films.

This report presents a comprehensive overview, market shares, and growth opportunities of Bio-polylactic Acid (PLA) Films market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Sol-Gel

Atomic Layer Deposition (ALD)

Multilayer

Segmentation by Application:

Food & Beverages

Home & Personal Care

Pharmaceuticals

Agriculture

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

NatureWorks LLC

Futerra

Tale & Lyle

Total Corbion PLA

Hiusan Biosciences

Toray Industries

Taghleef Industries

Amcor

Toyobo

Avery Dennison Corporation

Key Questions Addressed in this Report

What is the 10-year outlook for the global Bio-polylactic Acid (PLA) Films market?

What factors are driving Bio-polylactic Acid (PLA) Films market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Bio-polylactic Acid (PLA) Films market opportunities vary by end market size?

How does Bio-polylactic Acid (PLA) Films break out by Type, by Application?

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