

# Global Bio PLA Films Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Bio PLA Films market size is expected to reach \$ 550 million by 2032, rising at a market growth of 5.5% CAGR during the forecast period (2026-2032).

In 2025, global bio PLA film production reached approximately 131 k units, the average price is 2800 usd/ton. Bio PLA film is a film material made from lactic acid obtained through fermentation of renewable biological resources. After chemical synthesis of PLA resin, it is produced through molding processes such as blown film and casting. It is characterized by complete biodegradability, low carbon footprint derived from biomass, good transparency and gloss, and certain mechanical properties. Under composting conditions, it can eventually decompose into carbon dioxide and water. At the same time, its flexibility, thermal stability and barrier properties can be optimized by adjusting the PLA molecular structure or by blending modification according to needs. It can come into direct or indirect contact with food and is commonly used in food packaging, agricultural mulch film, garbage bags, disposable products and some daily packaging fields. It is one of the biodegradable alternatives to petrochemical-based plastic films.

Market Concentration and Major Players:

Internationally, the market for bio-based polylactic acid (PLA) films is highly concentrated, primarily in developed countries like Europe, America, and Japan. Large manufacturers include companies such as Sideplax and TIPA Corp. Domestically, however, there is still significant room for growth in the bio-based PLA film market.

Manufacturing Process and Market Trends:

Bio-based PLA film manufacturing uses PLA resin as raw material. After drying, it is

blended with plasticizers, nucleating agents, and toughening agents. The mixture is then melt-plasticized and granulated using a twin-screw extruder. Finally, it is produced using blown film, cast film, or biaxial stretching processes. Biaxial stretching significantly improves its mechanical properties and transparency. Subsequent corona treatment is often performed to improve printability. Strict temperature control is required throughout the process to prevent thermal degradation of the material. At the market level, driven by the deepening of plastic restriction policies and the popularization of environmental protection concepts, as a biodegradable alternative to traditional petroleum-based plastic films, its applications are expanding from ordinary food packaging and agricultural mulch films to high-value-added fields such as electronic protective films, medical packaging, and compostable garbage bags. The industry is committed to continuously improving its heat resistance, barrier properties, and brittleness through blending modification and the development of non-grain biomass raw materials, while reducing production costs. At the same time, it is also working to improve the composting degradation system and promote the development of products towards high performance and diversified applications.

This report studies the global Bio PLA Films production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Bio PLA Films and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Bio PLA Films that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Bio PLA Films total production and demand, 2021-2032, (Kilotons)

Global Bio PLA Films total production value, 2021-2032, (USD Million)

Global Bio PLA Films production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Bio PLA Films consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Bio PLA Films domestic production, consumption, key domestic manufacturers and share

Global Bio PLA Films production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Bio PLA Films production by Thickness, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Bio PLA Films production by Application, production, value, CAGR, 2021-2032,

(USD Million) & (Kilotons)

This report profiles key players in the global Bio PLA Films market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Taghleef Industries (UAE), Plastic Suppliers / EarthFirst Films (USA), Sidaplast (Belgium), BI-AX International / Evlon (Canada), Mitsubishi Chemical Group (Japan), Folienwerk Wolfen (Germany), TIPA Corp (Israel), ITP (Italy), RTG Films (USA), Xiamen Changsu Industrial (China), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Bio PLA Films market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) by manufacturer, by Thickness, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Bio PLA Films Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Bio PLA Films Market, Segmentation by Thickness:

?2mm

2-4mm

4.1-6mm

6.1-8mm

8.1-10mm

10.1-12mm

>12mm

### Global Bio PLA Films Market, Segmentation by Process:

Cast PLA Film

Blown PLA Film

BOPLA Film

Heat-sealable PLA Film

Coated PLA Film

### Global Bio PLA Films Market, Segmentation by Materials:

Bio-based PLA Film

Modified PLA Film

## Composite PLA Film

### Global Bio PLA Films Market, Segmentation by Application:

Shopping Sacks

Garbage Sacks

Food Wrap

Agricultural Mulch

Other

### Companies Profiled:

Taghleef Industries (UAE)

Plastic Suppliers / EarthFirst Films (USA)

Sidaplax (Belgium)

BI-AX International / Evlon (Canada)

Mitsubishi Chemical Group (Japan)

Folienwerk Wolfen (Germany)

TIPA Corp (Israel)

ITP (Italy)

RTG Films (USA)

Xiamen Changsu Industrial (China)

Key Questions Answered:

1. How big is the global Bio PLA Films market?
2. What is the demand of the global Bio PLA Films market?
3. What is the year over year growth of the global Bio PLA Films market?
4. What is the production and production value of the global Bio PLA Films market?
5. Who are the key producers in the global Bio PLA Films market?
6. What are the growth factors driving the market demand?

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