

Global Polylactic Acid Biodegradable Materials Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Polylactic Acid Biodegradable Materials market size is expected to reach \$ 4158 million by 2032, rising at a market growth of 10.9% CAGR during the forecast period (2026-2032).

In 2025, the global production of polylactic acid biodegradable materials reached approximately 320,000 tons units, with an average global market price of around US\$6 per kg. In the same year, the global total production capacity of polylactic acid biodegradable materials reached 400,000 tons. The industry average gross profit margin of this product reached 28%. Polylactic acid (PLA) is a bio-based, biodegradable thermoplastic polyester material produced through fermentation of renewable plant resources such as corn, sugarcane, and cassava, followed by polymerization to obtain lactic acid. PLA can be decomposed into carbon dioxide and water by microorganisms under natural or industrial composting conditions. It exhibits good biocompatibility, processability, and transparency, making it widely used in packaging materials, disposable tableware, textiles, 3D printing, and absorbable medical materials. Its core value lies in replacing traditional petroleum-based plastics, achieving a low-carbon and recyclable material system.

The PLA industry chain is mainly divided into three segments: upstream raw materials, midstream material production, and downstream applications. Upstream, it uses agricultural biomass such as corn, sugarcane, and cassava as a base, producing lactic acid through starch saccharification and microbial fermentation. Midstream, it further dehydrates lactic acid to produce lactide, which is then synthesized into PLA resin through ring-opening polymerization (ROP). Downstream, it enters multiple application fields such as packaging materials, fibers, 3D printing materials, agricultural films, and medical devices. The overall industry highly relies on a cross-industry integration

system of 'agricultural raw materials + chemical fermentation + polymer polymerization + application modification.' Driven by both global plastic bans and carbon neutrality initiatives, PLA, as one of the mainstream biodegradable materials, is experiencing rapid expansion. More than 80 countries worldwide have implemented policies restricting single-use plastics, promoting the shift of food packaging, catering, and e-commerce packaging towards PLA. Simultaneously, PLA's applications in 3D printing, absorbable medical materials, and high-end packaging are expanding, upgrading it from a 'substitute material' to a 'functional material.' Future growth will primarily come from capacity expansion in Asia and demand growth driven by policies in Europe and the United States. The industry is gradually transitioning from a policy-driven phase to a phase of 'cost reduction + large-scale application,' with a long-term growth cycle expected to last 10-15 years.

This report studies the global Polylactic Acid Biodegradable Materials production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Polylactic Acid Biodegradable Materials 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 Polylactic Acid Biodegradable Materials that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Polylactic Acid Biodegradable Materials total production and demand, 2021-2032, (Kilotons)

Global Polylactic Acid Biodegradable Materials total production value, 2021-2032, (USD Million)

Global Polylactic Acid Biodegradable Materials production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Polylactic Acid Biodegradable Materials consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Polylactic Acid Biodegradable Materials domestic production, consumption, key domestic manufacturers and share

Global Polylactic Acid Biodegradable Materials production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Polylactic Acid Biodegradable Materials production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Polylactic Acid Biodegradable Materials production by Application, production,

value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Polylactic Acid Biodegradable Materials 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 NatureWorks LLC, Cargill, Danimer Scientific, TotalEnergies Corbion, Corbion N.V., BASF, Futerro, Synbra Technology, Teijin Limited, Mitsubishi, 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 Polylactic Acid Biodegradable Materials market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/kg) by manufacturer, by Type, 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 Polylactic Acid Biodegradable Materials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Polylactic Acid Biodegradable Materials Market, Segmentation by Type:

PLLA

PDLA

PDLLA

Global Polylactic Acid Biodegradable Materials Market, Segmentation by Performance Grades:

General Purpose PLA

Heat Resistant PLA

Toughened Modified PLA

Global Polylactic Acid Biodegradable Materials Market, Segmentation by Processing Forms:

PLA Resin Particles

PLA Films

PLA Fibers

Others

Global Polylactic Acid Biodegradable Materials Market, Segmentation by Application:

Packaging Materials

Fibers and Textiles

3D Printing Materials

Medical Materials

Agricultural Mulch Films

Companies Profiled:

NatureWorks LLC

Cargill

Danimer Scientific

TotalEnergies Corbion

Corbion N.V.

BASF

Futero

Synbra Technology

Teijin Limited

Mitsubishi

Musashino

BBCA Group

COFCO Bio-chemical

Hisun Biomaterials

CJ CheilJedang

LG Chem

Wei Mon Industry

Thai Total Corbion PLA

PTT MCC Biochem

Key Questions Answered:

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

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