

Global Polylactic Acid Biodegradable Materials Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G7BE2A053FA9EN.html>

Date: June 2026

Pages: 139

Price: US\$ 3,480.00 (Single User License)

ID: G7BE2A053FA9EN

Abstracts

According to our (Global Info Research) latest study, the global Polylactic Acid Biodegradable Materials market size was valued at US\$ 1992 million in 2025 and is forecast to a readjusted size of US\$ 4158 million by 2032 with a CAGR of 10.9% during review period.

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 is a detailed and comprehensive analysis for global Polylactic Acid Biodegradable Materials market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Polylactic Acid Biodegradable Materials market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/kg), 2021-2032

Global Polylactic Acid Biodegradable Materials market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/kg), 2021-2032

Global Polylactic Acid Biodegradable Materials market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/kg), 2021-2032

Global Polylactic Acid Biodegradable Materials market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/kg),

2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Polylactic Acid Biodegradable Materials

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Polylactic Acid Biodegradable Materials market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Polylactic Acid Biodegradable Materials market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

PLLA

PDLA

PDLLA

Market segment by Performance Grades

General Purpose PLA

Heat Resistant PLA

Toughened Modified PLA

Market segment by Processing Forms

PLA Resin Particles

PLA Films

PLA Fibers

Others

Market segment by Application

Packaging Materials

Fibers and Textiles

3D Printing Materials

Medical Materials

Agricultural Mulch Films

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Polylactic Acid Biodegradable Materials product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Polylactic Acid Biodegradable Materials, with price, sales quantity, revenue, and global market share of Polylactic Acid Biodegradable Materials from 2021 to 2026.

Chapter 3, the Polylactic Acid Biodegradable Materials competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Polylactic Acid Biodegradable Materials breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Polylactic Acid Biodegradable Materials market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Polylactic

Acid Biodegradable Materials.

Chapter 14 and 15, to describe Polylactic Acid Biodegradable Materials sales channel, distributors, customers, research findings and conclusion.

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