

Global PHA/PLA Composites Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global PHA/PLA Composites market size is expected to reach \$ 1937 million by 2032, rising at a market growth of 8.5% CAGR during the forecast period (2026-2032).

PHA/PLA composites are fully biodegradable materials created by blending polylactic acid (PLA) and polyhydroxyalkanoates (PHA) using physical or chemical methods, aiming to overcome the performance limitations of single-material composites. They combine the rigidity of PLA with the flexibility of PHA and represent one of the key technological routes currently being developed in the field of bio-based plastics.

The main purpose of combining PLA and PHA is to address the inherent problems of PLA's high brittleness and poor impact resistance.

Significant toughening effect: Studies have shown that adding only a small amount of PHA (e.g., 12 wt.%) can increase the toughness of the composite by approximately 50% compared to pure PLA.

Complementary performance balance: PLA contributes high strength and high rigidity, while PHA provides excellent flexibility and impact toughness, solving the brittleness problem of PLA.

Optimal specific ratio: Research shows that a PHA/PLA ratio of 30/70 produces the best synergistic effect, resulting in the highest overall mechanical properties.

Limitations of certain properties: Adding PHA may lead to a decrease in the heat distortion temperature (HDT) of the composite. However, these shortcomings can be effectively compensated for by adding nanofillers (such as TiO₂) or natural fibers as

reinforcements.

Upstream raw materials for PHA/PLA composites include PLA raw materials (starch-based), PHA raw materials (diversified carbon sources), PLA enzymes, PHA production strains, and fermentation aids. The core midstream includes basic resin production and PHA/PLA composite modification, while downstream applications are mainly in packaging, disposable products, and other fields.

In 2025, global sales of PHA/PLA composites reached 60,500 tons, with a production capacity of approximately 87,000 tons, an average selling price of US\$17.6/kg, and an average gross profit margin of 35%-42%.

This report studies the global PHA/PLA Composites production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for PHA/PLA Composites 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 PHA/PLA Composites that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global PHA/PLA Composites total production and demand, 2021-2032, (Kilotons)

Global PHA/PLA Composites total production value, 2021-2032, (USD Million)

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

Global PHA/PLA Composites consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: PHA/PLA Composites domestic production, consumption, key domestic manufacturers and share

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

Global PHA/PLA Composites production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global PHA/PLA Composites production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global PHA/PLA Composites 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, Total Corbion PLA, CJ Biomaterials, Novamont, Anhui Fengyuan Group, COFCO Technology, Lanjing Microbiology, Danimer Scientific, Kaneka, LG Chem, 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 PHA/PLA Composites 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 PHA/PLA Composites Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global PHA/PLA Composites Market, Segmentation by Type:

PLA-Based Modified (PLA Content 70%-90%)

PHA-Based Modified (PHA Content 70%-90%)

Global PHA/PLA Composites Market, Segmentation by Modification Preparation Methods:

Physical Blending Type

Compatible Modification Type

Filler-Reinforced Type

Other

Global PHA/PLA Composites Market, Segmentation by Product Forms:

Injection Molding Grade

Blown Film Grade

3D Printing Filament

Fiber Grade

Global PHA/PLA Composites Market, Segmentation by Application:

Packaging

Disposable Items

Others

Companies Profiled:

NatureWorks

Total Corbion PLA

CJ Biomaterials

Novamont

Anhui Fengyuan Group

COFCO Technology

Lanjing Microbiology

Danimer Scientific

Kaneka

LG Chem

Key Questions Answered:

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

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