

Global PHA/PLA Composites Market Growth 2026-2032

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Abstracts

The global PHA/PLA Composites market size is predicted to grow from US\$ 1042 million in 2025 to US\$ 1897 million in 2032; it is expected to grow at a CAGR of 9.0% from 2026 to 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%.

United States market for PHA/PLA Composites is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for PHA/PLA Composites is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for PHA/PLA Composites is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key PHA/PLA Composites players cover NatureWorks, Total Corbion PLA, CJ Biomaterials, Novamont, Anhui Fengyuan Group, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the ?PHA/PLA Composites Industry Forecast? looks at past sales and reviews total world PHA/PLA Composites sales in 2025, providing a comprehensive analysis by region and market sector of projected PHA/PLA Composites sales for 2026 through 2032. With PHA/PLA Composites sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world PHA/PLA Composites industry.

This Insight Report provides a comprehensive analysis of the global PHA/PLA Composites 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 PHA/PLA Composites portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position

in an accelerating global PHA/PLA Composites market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for PHA/PLA Composites 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 PHA/PLA Composites.

This report presents a comprehensive overview, market shares, and growth opportunities of PHA/PLA Composites market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

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

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

Segmentation by Modification Preparation Methods:

Physical Blending Type

Compatible Modification Type

Filler-Reinforced Type

Other

Segmentation by Product Forms:

Injection Molding Grade

Blown Film Grade

3D Printing Filament

Fiber Grade

Segmentation by Application:

Packaging

Disposable Items

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

Total Corbion PLA

CJ Biomaterials

Novamont

Anhui Fengyuan Group

COFCO Technology

Lanjing Microbiology

Danimer Scientific

Kaneka

LG Chem

Key Questions Addressed in this Report

What is the 10-year outlook for the global PHA/PLA Composites market?

What factors are driving PHA/PLA Composites market growth, globally and by region?

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

How do PHA/PLA Composites market opportunities vary by end market size?

How does PHA/PLA Composites break out by Type, by Application?

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