

Global PHA/PLA Composites Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global PHA/PLA Composites market size was valued at US\$ 1096 million in 2025 and is forecast to a readjusted size of US\$ 1937 million by 2032 with a CAGR of 8.5% during review period.

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 is a detailed and comprehensive analysis for global PHA/PLA Composites 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 PHA/PLA Composites market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/kg), 2021-2032

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

Global PHA/PLA Composites 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 PHA/PLA Composites 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 PHA/PLA Composites

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 PHA/PLA Composites 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, 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.

Market Segmentation

PHA/PLA Composites 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

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

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

Market segment by Modification Preparation Methods

Physical Blending Type

Compatible Modification Type

Filler-Reinforced Type

Other

Market segment by Product Forms

Injection Molding Grade

Blown Film Grade

3D Printing Filament

Fiber Grade

Market segment by Application

Packaging

Disposable Items

Others

Major players covered

NatureWorks

Total Corbion PLA

CJ Biomaterials

Novamont

Anhui Fengyuan Group

COFCO Technology

Lanjing Microbiology

Danimer Scientific

Kaneka

LG Chem

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 PHA/PLA Composites product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of PHA/PLA Composites, with price, sales quantity, revenue, and global market share of PHA/PLA Composites from 2021 to 2026.

Chapter 3, the PHA/PLA Composites competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the PHA/PLA Composites 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 PHA/PLA Composites 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 PHA/PLA Composites.

Chapter 14 and 15, to describe PHA/PLA Composites sales channel, distributors, customers, research findings and conclusion.

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