

Global Industrial Grade Polyhydroxyalkanoates (PHA) 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 Industrial Grade Polyhydroxyalkanoates (PHA) market size was valued at US\$ 168 million in 2025 and is forecast to a readjusted size of US\$ 312 million by 2032 with a CAGR of 9.4% during review period.

In 2025, global Industrial Grade Polyhydroxyalkanoates (PHA) production reached approximately 42 k tons, with an average global market price of around US\$3,890 per ton. Polyhydroxyalkanoates (PHAs) are biodegradable polyesters produced by many bacteria that accumulate them as intracellular storage material in the cytoplasm. These polymers are potential candidate for substitution of petrochemical nonrenewable plastics for their biodegradable and nontoxic properties.

Industrial-grade PHA has attracted renewed attention as an alternative to single-use and biodegradable applications, driven by tighter regulation and downstream demand for circular materials. Technological progress focuses on fermentation processes and copolymer formulation to balance mechanical performance with biodegradability while broadening feedstock options to reduce cost. Opportunities arise from policy-led procurement and infrastructure applications, and from investment along green value chains that create demonstration effects. Constraints include feedstock and intermediate price volatility, challenges in scaling production, and incomplete collection and recycling systems that keep total cost high, as well as inconsistent regulations and standards across jurisdictions that raise market entry barriers. Typical corporate responses include integrating process and supply chains, deploying automation to improve yield, deeper collaboration with downstream integrators, and prioritising recyclable and ecodesign strategies to reduce recall and compliance risk and enable

scale-up. Continued R&D, inline quality control, and circular feedstock sourcing are essential to lower cost and de-risk commercialisation; alignment of standards, public procurement pilots and co-investment in demonstration plants further catalyse private investment, and government incentives and feedstock diversification will accelerate the transition.

This report is a detailed and comprehensive analysis for global Industrial Grade Polyhydroxyalkanoates (PHA) 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 Industrial Grade Polyhydroxyalkanoates (PHA) market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Industrial Grade Polyhydroxyalkanoates (PHA) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Industrial Grade Polyhydroxyalkanoates (PHA) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Industrial Grade Polyhydroxyalkanoates (PHA) market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 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 Industrial Grade Polyhydroxyalkanoates (PHA)
- 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 Industrial Grade Polyhydroxyalkanoates

(PHA) 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 Danimer Scientific, Kaneka, Newlight Technologies, Ningbo Tianan Biologic Material, RWDC Industries, Nafigate Corporation, MedPHA Bioscience, CJ CheilJedang, Ecomann Technology, Biomer, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Industrial Grade Polyhydroxyalkanoates (PHA) 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

PHB-Poly(3-hydroxybutyrate)

PHBV-poly(3-hydroxybutyrate-co-3-hydroxyvalerate)

P34HB-poly(3-hydroxybutyrate-co-4-hydroxybutyrate)

PHBH-poly(3-hydroxybutyrate-co-3-hydroxyhexanoate)

Market segment by Shape

Powder

Pellet

Liquid

Market segment by Carbon Chain Length

Short-chain PHA

Medium-chain PHA

Long-chain PHA

Market segment by Application

Packaging

Agricultural

Others

Major players covered

Danimer Scientific

Kaneka

Newlight Technologies

Ningbo Tianan Biologic Material

RWDC Industries

Navigate Corporation

MedPHA Bioscience

CJ CheilJedang

Ecomann Technology

Biomer

Genecis Bioindustries

Shanghai Bluepha Microbiology Technology

Bio-on SpA

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 Industrial Grade Polyhydroxyalkanoates (PHA) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Industrial Grade Polyhydroxyalkanoates (PHA), with price, sales quantity, revenue, and global market share of Industrial Grade Polyhydroxyalkanoates (PHA) from 2021 to 2026.

Chapter 3, the Industrial Grade Polyhydroxyalkanoates (PHA) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Industrial Grade Polyhydroxyalkanoates (PHA) 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 Industrial Grade Polyhydroxyalkanoates (PHA) 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 Industrial Grade Polyhydroxyalkanoates (PHA).

Chapter 14 and 15, to describe Industrial Grade Polyhydroxyalkanoates (PHA) sales channel, distributors, customers, research findings and conclusion.

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