

# Biodegradable Plastics Market By Type (Polylactic Acid (PLA), Polybutylene Adipate Terephthalate (PBAT), Polybutylene Succinate (PBS), Polyhydroxyalkanoates (PHA), Starch Blends, Others), By Application (Packaging, Agriculture, Consumer Durable, Textile, Others): Global Opportunity Analysis and Industry Forecast, 2023-2033

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## Abstracts

The global biodegradable plastics market was valued at \$3.9 billion in 2023, and is estimated to reach \$9.1 billion by 2033, growing at a CAGR of 8.8% from 2023 to 2033.

Biodegradable plastic refers to synthetic polymers that can decompose naturally in the environment through biological processes, such as microbial digestion, into simpler substances like water, carbon dioxide, and biomass. Unlike traditional plastics, which can persist in the environment for centuries, biodegradable plastics break down relatively quickly, reducing the accumulation of plastic waste and environmental pollution. They are designed to mimic the properties of conventional plastics while offering a more sustainable end-of-life option. However, their effectiveness in various environments and their complete degradation timeline can vary depending on factors like temperature, moisture, and the presence of specific microorganisms.

Ongoing advancements in material science and biotechnology contribute to the development of innovative biodegradable plastics with enhanced properties and

performance. Researchers are exploring novel biopolymer formulations, bio-based feedstocks, and manufacturing processes to improve the durability, strength, and biodegradability of bioplastics. Biodegradable polymers derived from renewable resources such as plant-based sugars, starches, cellulose, and microbial fermentation offer sustainable alternatives to petroleum-based plastics. Breakthroughs in biodegradable packaging materials, coatings, and films enable applications across various industries, including food packaging, agriculture, textiles, and biomedical devices, driving market expansion.

Moreover, changing consumer preferences and increasing awareness of environmental issues influence purchasing decisions and drive demand for eco-friendly products, including biodegradable plastics. Consumers seek sustainable alternatives that minimize environmental impact and align with their values, prompting companies to adopt biodegradable packaging solutions and eco-friendly practices. Corporate sustainability initiatives, driven by reputational concerns, regulatory compliance, and stakeholder pressure, propel the adoption of biodegradable plastics in supply chains and product portfolios. Brand differentiation through sustainable packaging and eco-friendly branding strategies enhances market competitiveness and consumer appeal.

Furthermore, global megatrends, including urbanization, population growth, and sustainability agendas, drive market expansion and diversification across regions and industries. Emerging economies, particularly in Asia-Pacific and Latin America, represent significant growth opportunities for biodegradable plastics due to rising disposable incomes, urbanization, and regulatory interventions to address plastic pollution. The adoption of biodegradable packaging solutions in food and beverage, cosmetics, and personal care industries, driven by consumer preferences and regulatory compliance, fuels market growth and penetration. Globalization, trade liberalization, and supply chain integration facilitate the exchange of technology, expertise, and market opportunities, fostering global collaboration and market development in the biodegradable plastics sector..

The successful integration of biodegradable plastics into existing waste management systems is contingent upon the availability of appropriate infrastructure for collection, sorting, and processing. However, many regions lack the necessary infrastructure to effectively manage biodegradable waste, including composting facilities and industrial composting sites.

Inadequate infrastructure not only impedes the proper disposal and composting of biodegradable plastics but also contributes to contamination in recycling streams,

as biodegradable and non-biodegradable plastics are often mixed together, complicating recycling processes. Addressing this challenge requires significant investment in infrastructure development and waste management practices tailored to accommodate biodegradable materials.

On the contrary, the integration of sustainability into corporate strategies, driven by the imperative to address climate change and mitigate environmental risks, is driving widespread adoption of biodegradable plastics across industries. Technological advancements, such as innovations in bioplastic formulations and processing techniques, are further bolstering the market by improving performance, cost-effectiveness, and scalability of biodegradable plastics. Within the packaging industry, biodegradable plastics offer a sustainable alternative to traditional plastics, catering to diverse applications including food packaging, beverage containers, and electronic device packaging. In agriculture, biodegradable mulch films, seed coatings, and pots are enhancing soil health, water conservation, and seedling growth while reducing plastic waste. The textile and apparel sector is embracing biodegradable fibers derived from renewable sources like bamboo and hemp, offering breathable, moisture-wicking fabrics with reduced environmental impact. Automotive and electronics manufacturers are exploring biodegradable plastics for interior components and casings, leveraging their lightweight, durable properties to reduce reliance on petroleum-based plastics and minimize environmental footprint.

The biodegradable plastic market is segmented on the basis of type, application, and region. On the basis of type, the market is categorized into Polylactic Acid (PLA), Polybutylene Adipate Terephthalate (PBAT), Polybutylene Succinate (PBS), Polyhydroxyalkanoates (PHA), Starch Blends, and others. By application, the market is divided into packaging, Agriculture, consumer durable, textile, and others. Region-wise, the market is studied across North America, Europe, Asia-Pacific, and LAMEA.

The global biodegradable plastic market profiles leading players that include BASF SE, NatureWorks, Total Corbion, Novamont, Biome Bioplastics, Mitsubishi Chemical Holding Corporation, Toray Industries, Plantic Technologies, Danimer Scientific, and Fkur Kunststoff. The global biodegradable plastic market report provides in-depth competitive analysis as well as profiles of these major players.

### Key Benefits For Stakeholders

This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the

biodegradable plastic market analysis from 2023 to 2033  
to identify the prevailing biodegradable plastic market opportunities.

The market research is offered along with information related to key drivers, restraints, and opportunities.

Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.

In-depth analysis of the biodegradable plastic market segmentation assists to determine the prevailing market opportunities.

Major countries in each region are mapped according to their revenue contribution to the global market.

Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.

The report includes the analysis of the regional as well as global biodegradable plastic market trends, key players, market segments, application areas, and market growth strategies.

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Installed Base analysis

Investment Opportunities

Technology Trend Analysis

New Product Development/ Product Matrix of Key Players

Patient/epidemiology data at country, region, global level

Additional company profiles with specific client's interest

Additional country or region analysis- market size and forecast

Criss-cross segment analysis- market size and forecast

Expanded list for Company Profiles

Historic market data

Import Export Analysis/Data

Key player details (including location, contact details, supplier/vendor network etc. in excel format)

List of customers/consumers/raw material suppliers- value chain analysis

Market share analysis of players at global/region/country level

SWOT Analysis

Volume Market Size and Forecast

## Key Market Segments

### By Type

Polylactic Acid (PLA)

Polybutylene Adipate Terephthalate (PBAT)

Polybutylene Succinate (PBS)

Polyhydroxyalkanoates (PHA)

Starch Blends

Others

### By Application

Packaging

Agriculture

Consumer Durable

Textile

Others

## By Region

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Spain

Italy

Rest of Europe

Asia-Pacific

China

India

Japan

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

Key Market Players

BASF SE

NatureWorks LLC.

Total Corbion

Novamont

Biome Bioplastics

Mitsubishi Chemical Holding Corporation

TORAY INDUSTRIES, INC.

Plantic Technologies Ltd.

DaniMer Scientific, LLC

Fkur Kunstsoff



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