

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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Report description:

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 Fkru 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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- 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

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- 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 Kunststoff

Table of Contents:

CHAPTER 1: INTRODUCTION

- 1.1. Report description

- 1.2. Key market segments

- 1.3. Key benefits to the stakeholders

- 1.4. Research methodology

- 1.4.1. Primary research

- 1.4.2. Secondary research

- 1.4.3. Analyst tools and models

CHAPTER 2: EXECUTIVE SUMMARY

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2.1. CXO perspective

CHAPTER 3: MARKET OVERVIEW

3.1. Market definition and scope

3.2. Key findings

3.2.1. Top impacting factors

3.2.2. Top investment pockets

3.3. Porter's five forces analysis

3.4. Market dynamics

3.4.1. Drivers

3.4.2. Restraints

3.4.3. Opportunities

3.5. Value Chain Analysis

3.6. Pricing Analysis

3.7. Key Regulation Analysis

3.8. Patent Landscape

CHAPTER 4: BIODEGRADABLE PLASTICS MARKET, BY TYPE

4.1. Overview

4.1.1. Market size and forecast

4.2. Polylactic Acid (PLA)

4.2.1. Key market trends, growth factors and opportunities

4.2.2. Market size and forecast, by region

4.2.3. Market share analysis by country

4.3. Polybutylene Adipate Terephthalate (PBAT)

4.3.1. Key market trends, growth factors and opportunities

4.3.2. Market size and forecast, by region

4.3.3. Market share analysis by country

4.4. Polybutylene Succinate (PBS)

4.4.1. Key market trends, growth factors and opportunities

4.4.2. Market size and forecast, by region

4.4.3. Market share analysis by country

4.5. Polyhydroxyalkanoates (PHA)

4.5.1. Key market trends, growth factors and opportunities

4.5.2. Market size and forecast, by region

4.5.3. Market share analysis by country

4.6. Starch Blends

4.6.1. Key market trends, growth factors and opportunities

4.6.2. Market size and forecast, by region

4.6.3. Market share analysis by country

4.7. Others

4.7.1. Key market trends, growth factors and opportunities

4.7.2. Market size and forecast, by region

4.7.3. Market share analysis by country

CHAPTER 5: BIODEGRADABLE PLASTICS MARKET, BY APPLICATION

5.1. Overview

5.1.1. Market size and forecast

5.2. Packaging

5.2.1. Key market trends, growth factors and opportunities

- 5.2.2. Market size and forecast, by region
- 5.2.3. Market share analysis by country
- 5.3. Agriculture
 - 5.3.1. Key market trends, growth factors and opportunities
 - 5.3.2. Market size and forecast, by region
 - 5.3.3. Market share analysis by country
- 5.4. Consumer Durable
 - 5.4.1. Key market trends, growth factors and opportunities
 - 5.4.2. Market size and forecast, by region
 - 5.4.3. Market share analysis by country
- 5.5. Textile
 - 5.5.1. Key market trends, growth factors and opportunities
 - 5.5.2. Market size and forecast, by region
 - 5.5.3. Market share analysis by country
- 5.6. Others
 - 5.6.1. Key market trends, growth factors and opportunities
 - 5.6.2. Market size and forecast, by region
 - 5.6.3. Market share analysis by country

CHAPTER 6: BIODEGRADABLE PLASTICS MARKET, BY REGION

- 6.1. Overview
- 6.1.1. Market size and forecast By Region
- 6.2. North America
 - 6.2.1. Key market trends, growth factors and opportunities
 - 6.2.2. Market size and forecast, by Type
 - 6.2.3. Market size and forecast, by Application
 - 6.2.4. Market size and forecast, by country
 - 6.2.4.1. U.S.
 - 6.2.4.1.1. Market size and forecast, by Type
 - 6.2.4.1.2. Market size and forecast, by Application
 - 6.2.4.2. Canada
 - 6.2.4.2.1. Market size and forecast, by Type
 - 6.2.4.2.2. Market size and forecast, by Application
 - 6.2.4.3. Mexico
 - 6.2.4.3.1. Market size and forecast, by Type
 - 6.2.4.3.2. Market size and forecast, by Application
 - 6.3. Europe
 - 6.3.1. Key market trends, growth factors and opportunities
 - 6.3.2. Market size and forecast, by Type
 - 6.3.3. Market size and forecast, by Application
 - 6.3.4. Market size and forecast, by country
 - 6.3.4.1. Germany
 - 6.3.4.1.1. Market size and forecast, by Type
 - 6.3.4.1.2. Market size and forecast, by Application
 - 6.3.4.2. UK
 - 6.3.4.2.1. Market size and forecast, by Type
 - 6.3.4.2.2. Market size and forecast, by Application
 - 6.3.4.3. France

- 6.3.4.3.1. Market size and forecast, by Type
- 6.3.4.3.2. Market size and forecast, by Application
- 6.3.4.4. Spain
- 6.3.4.4.1. Market size and forecast, by Type
- 6.3.4.4.2. Market size and forecast, by Application
- 6.3.4.5. Italy
- 6.3.4.5.1. Market size and forecast, by Type
- 6.3.4.5.2. Market size and forecast, by Application
- 6.3.4.6. Rest of Europe
- 6.3.4.6.1. Market size and forecast, by Type
- 6.3.4.6.2. Market size and forecast, by Application
- 6.4. Asia-Pacific
- 6.4.1. Key market trends, growth factors and opportunities
- 6.4.2. Market size and forecast, by Type
- 6.4.3. Market size and forecast, by Application
- 6.4.4. Market size and forecast, by country
- 6.4.4.1. China
- 6.4.4.1.1. Market size and forecast, by Type
- 6.4.4.1.2. Market size and forecast, by Application
- 6.4.4.2. India
- 6.4.4.2.1. Market size and forecast, by Type
- 6.4.4.2.2. Market size and forecast, by Application
- 6.4.4.3. Japan
- 6.4.4.3.1. Market size and forecast, by Type
- 6.4.4.3.2. Market size and forecast, by Application
- 6.4.4.4. South Korea
- 6.4.4.4.1. Market size and forecast, by Type
- 6.4.4.4.2. Market size and forecast, by Application
- 6.4.4.5. Australia
- 6.4.4.5.1. Market size and forecast, by Type
- 6.4.4.5.2. Market size and forecast, by Application
- 6.4.4.6. Rest of Asia-Pacific
- 6.4.4.6.1. Market size and forecast, by Type
- 6.4.4.6.2. Market size and forecast, by Application
- 6.5. LAMEA
- 6.5.1. Key market trends, growth factors and opportunities
- 6.5.2. Market size and forecast, by Type
- 6.5.3. Market size and forecast, by Application
- 6.5.4. Market size and forecast, by country
- 6.5.4.1. Brazil
- 6.5.4.1.1. Market size and forecast, by Type
- 6.5.4.1.2. Market size and forecast, by Application
- 6.5.4.2. Saudi Arabia
- 6.5.4.2.1. Market size and forecast, by Type
- 6.5.4.2.2. Market size and forecast, by Application
- 6.5.4.3. South Africa
- 6.5.4.3.1. Market size and forecast, by Type

6.5.4.3.2. Market size and forecast, by Application

6.5.4.4. Rest of LAMEA

6.5.4.4.1. Market size and forecast, by Type

6.5.4.4.2. Market size and forecast, by Application

CHAPTER 7: COMPETITIVE LANDSCAPE

7.1. Introduction

7.2. Top winning strategies

7.3. Product mapping of top 10 player

7.4. Competitive dashboard

7.5. Competitive heatmap

7.6. Top player positioning, 2023

CHAPTER 8: COMPANY PROFILES

8.1. BASF SE

8.1.1. Company overview

8.1.2. Key executives

8.1.3. Company snapshot

8.1.4. Operating business segments

8.1.5. Product portfolio

8.1.6. Business performance

8.1.7. Key strategic moves and developments

8.2. NatureWorks LLC.

8.2.1. Company overview

8.2.2. Key executives

8.2.3. Company snapshot

8.2.4. Operating business segments

8.2.5. Product portfolio

8.2.6. Business performance

8.2.7. Key strategic moves and developments

8.3. Total Corbion

8.3.1. Company overview

8.3.2. Key executives

8.3.3. Company snapshot

8.3.4. Operating business segments

8.3.5. Product portfolio

8.3.6. Business performance

8.3.7. Key strategic moves and developments

8.4. Novamont

8.4.1. Company overview

8.4.2. Key executives

8.4.3. Company snapshot

8.4.4. Operating business segments

8.4.5. Product portfolio

8.4.6. Business performance

8.4.7. Key strategic moves and developments

8.5. Biome Bioplastics

8.5.1. Company overview

8.5.2. Key executives

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- 8.5.3. Company snapshot
- 8.5.4. Operating business segments
- 8.5.5. Product portfolio
- 8.5.6. Business performance
- 8.5.7. Key strategic moves and developments
- 8.6. Mitsubishi Chemical Holding Corporation
 - 8.6.1. Company overview
 - 8.6.2. Key executives
 - 8.6.3. Company snapshot
 - 8.6.4. Operating business segments
 - 8.6.5. Product portfolio
 - 8.6.6. Business performance
 - 8.6.7. Key strategic moves and developments
- 8.7. TORAY INDUSTRIES, INC.
 - 8.7.1. Company overview
 - 8.7.2. Key executives
 - 8.7.3. Company snapshot
 - 8.7.4. Operating business segments
 - 8.7.5. Product portfolio
 - 8.7.6. Business performance
 - 8.7.7. Key strategic moves and developments
- 8.8. Plantic Technologies Ltd.
 - 8.8.1. Company overview
 - 8.8.2. Key executives
 - 8.8.3. Company snapshot
 - 8.8.4. Operating business segments
 - 8.8.5. Product portfolio
 - 8.8.6. Business performance
 - 8.8.7. Key strategic moves and developments
- 8.9. DaniMer Scientific, LLC
 - 8.9.1. Company overview
 - 8.9.2. Key executives
 - 8.9.3. Company snapshot
 - 8.9.4. Operating business segments
 - 8.9.5. Product portfolio
 - 8.9.6. Business performance
 - 8.9.7. Key strategic moves and developments
- 8.10. Fkur Kunststoff
 - 8.10.1. Company overview
 - 8.10.2. Key executives
 - 8.10.3. Company snapshot
 - 8.10.4. Operating business segments
 - 8.10.5. Product portfolio
 - 8.10.6. Business performance
 - 8.10.7. Key strategic moves and developments

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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