

# **Biodegradable Polymers Market Size, Share, and Analysis, By Type (Polycaprolactone (PCL), Polyhydroxyalkanoates (PHA), Polylactic Acid (PLA), Starch Blends, Polybutylene Succinate (PBS), and Others), By Industry (Textiles, Consumer Goods, Packaging, Agriculture, Medical, and Others), By Region (North America, Europe, Asia-Pacific, and Rest of the World), And Regional Forecast 2024-2034**

<https://marketpublishers.com/r/BD7682177568EN.html>

Date: February 2025

Pages: 626

Price: US\$ 5,250.00 (Single User License)

ID: BD7682177568EN

## **Abstracts**

Biodegradable Polymers Market Size, Share, and Analysis, By Type (Polycaprolactone (PCL), Polyhydroxyalkanoates (PHA), Polylactic Acid (PLA), Starch Blends, Polybutylene Succinate (PBS), and Others), By Industry (Textiles, Consumer Goods, Packaging, Agriculture, Medical, and Others), By Region (North America, Europe, Asia-Pacific, and Rest of the World), And Regional Forecast 2024-2034

### **PRODUCT OVERVIEW**

Biodegradable Polymers Market is projected to exhibit a Compound Annual Growth Rate (CAGR) of 21.6% during the forecast span from 2024 to 2034. In 2023, the market size was assessed at USD 6.5 billion and is projected to reach USD 56.3 billion by the completion of 2034.

Biodegradable polymers are materials that decompose into natural products such as carbon dioxide, water, and methane through the action of microorganisms like bacteria and fungi, facilitated by heat and moisture. These polymers are used similarly to conventional plastics to mitigate environmental issues associated with non-degradable

waste, which can accumulate in waterways and landfills. Biodegradable polymers can be derived naturally or synthesized, with common examples including polylactic acid (PLA), starch blends, and polycaprolactone (PCL). They find applications in packaging, textiles, medical fields, and daily-use products.

## MARKET HIGHLIGHTS

Biodegradable Polymers Market is expected to reach USD 56.3 billion during the forecast period. This growth is driven by increasing consumer demand and environmental concerns. The rising awareness about the detrimental effects of plastics, coupled with governmental bans on single-use plastics, is fueling demand for biodegradable alternatives. Additionally, investments in research and development are driving innovations in biodegradable polymers, enhancing their properties and market appeal.

### Biodegradable Polymers Market Segments:

By Type

Polycaprolactone (PCL)

Polyhydroxyalkanoates (PHA)

Polylactic Acid (PLA)

Starch Blends

Polybutylene Succinate (PBS)

Others

By Industry

Textiles

Consumer Goods

Packaging

Agriculture

Medical

Others

## MARKET DYNAMICS

### Growth Drivers

Environmental regulations and policies are Critical to Boosting the Adoption of Biodegradable Polymers

Emerging Markets Will Aid the Market

### Restraint

High Initial Production Expenses can Limit the Growth of the Biodegradable Polymers Market

### Key Players

NatureWorks LLC

Novamont S.p.A.

BASF SE

Plantic Technologies Limited

Total Corbion PLA

BioMe Technologies plc

Changsu Jiangshan Packaging Materials Co., Ltd

Mitsubishi Chemical Corporation

FKuR Kunststoff GmbH

NaturTec

Evonik Health Care

Corbion N.V.

Green Dot Bioplastics

Jiangmen Xinshuo New Materials Co., Ltd

Cardia Bioplastics Limited

Other Prominent Players (Company Overview, Business Strategy, Key Product Offerings, Financial Performance, Key Performance Indicators, Risk Analysis, Recent Development, Regional Presence, SWOT Analysis)

Global Laboratory Temperature Control Units Market is further segmented by region into:

North America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United States and Canada

Latin America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – Mexico, Argentina, Brazil and Rest of Latin America

Europe Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United Kingdom, France, Germany, Italy, Spain, Belgium, Hungary, Luxembourg, Netherlands, Poland, NORDIC, Russia, Turkey and Rest of Europe

Asia Pacific Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – India, China, South Korea, Japan, Malaysia, Indonesia, New Zealand, Australia and Rest of APAC

Middle East and Africa Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – North Africa, Israel, GCC, South Africa and Rest of MENA

## Reasons to Purchase this Report

Qualitative and quantitative analysis of the market based on segmentation involving both economic as well as non-economic factors

Provision of market value (USD Billion) data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry with respect to recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market of various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

3-month post-sales analyst support.

## Contents

### **1. EXECUTIVE SUMMARY**

- 1.1. Regional Market Share
- 1.2. Business Trends
- 1.3. Biodegradable Polymers Market: COVID-19 Outbreak
- 1.4. Regional Trends
- 1.5. Segmentation Snapshot

### **2. RESEARCH METHODOLOGY**

- 2.1. Research Objective
- 2.2. Research Approach
- 2.3. Data Sourcing and Methodology
- 2.4. Primary Research
- 2.5. Secondary Research
  - 2.5.1. Paid Sources
  - 2.5.2. Public Sources
- 2.6. Market Size Estimation and Data Triangulation

### **3. MARKET CHARACTERISTICS**

- 3.1. Market Definition
- 3.2. Biodegradable Polymers Market: COVID-19 Impact
- 3.3. Key Segmentations
- 3.4. Key Developments
- 3.5. Allied Industry Data

### **4. BIODEGRADABLE POLYMERS MARKET – INDUSTRY INSIGHTS**

- 4.1. Industry Segmentation
- 4.2. COVID-19 overview of world economy
- 4.3. Industry Ecosystem Channel Analysis
- 4.4. Innovation & Sustainability

### **5. MACROECONOMIC INDICATORS**

### **6. RECENT DEVELOPMENTS**

## **7. MARKET DYNAMICS**

- 7.1. Introduction
- 7.2. Growth Drivers
- 7.3. Market Opportunities
- 7.4. Market Restraints
- 7.5. Market Trends

## **8. RISK ANALYSIS**

## **9. MARKET ANALYSIS**

- 9.1. Porter's Five Forces
- 9.2. PEST Analysis
  - 9.2.1. Political
  - 9.2.2. Economic
  - 9.2.3. Social
  - 9.2.4. Technological

## **10. BIODEGRADABLE POLYMERS MARKET**

- 10.1. Overview
- 10.2. Historical Analysis (2018-2022)
  - 10.2.1. Market Size, Y-o-Y Growth (%) and Market Forecast

## **11. BIODEGRADABLE POLYMERS MARKET SIZE & FORECAST 2024A-2034F**

- 11.1. Overview
- 11.2. Key Findings
- 11.3. Market Segmentation
  - 11.3.1. By Type
    - 11.3.1.1. Polycaprolactone (PCL)
      - 11.3.1.1.1. By Value (USD Million) 2024A-2034F
      - 11.3.1.1.2. Market Share (%) 2024A-2034F
      - 11.3.1.1.3. Y-o-Y Growth (%) 2024A-2034F
    - 11.3.1.2. Polyhydroxyalkanoates (PHA)
      - 11.3.1.2.1. By Value (USD Million) 2024A-2034F
      - 11.3.1.2.2. Market Share (%) 2024A-2034F

- 11.3.1.2.3.Y-o-Y Growth (%) 2024A-2034F
- 11.3.1.3.Polylactic Acid (PLA)
  - 11.3.1.3.1. By Value (USD Million) 2024A-2034F
  - 11.3.1.3.2.Market Share (%) 2024A-2034F
  - 11.3.1.3.3.Y-o-Y Growth (%) 2024A-2034F
- 11.3.1.4.Starch Blends
  - 11.3.1.4.1. By Value (USD Million) 2024A-2034F
  - 11.3.1.4.2.Market Share (%) 2024A-2034F
  - 11.3.1.4.3.Y-o-Y Growth (%) 2024A-2034F
- 11.3.1.5.Polybutylene Succinate (PBS)
  - 11.3.1.5.1. By Value (USD Million) 2024A-2034F
  - 11.3.1.5.2.Market Share (%) 2024A-2034F
  - 11.3.1.5.3.Y-o-Y Growth (%) 2024A-2034F
- 11.3.1.6.Others
  - 11.3.1.6.1. By Value (USD Million) 2024A-2034F
  - 11.3.1.6.2.Market Share (%) 2024A-2034F
  - 11.3.1.6.3.Y-o-Y Growth (%) 2024A-2034F
- 11.3.2. By Industry
  - 11.3.2.1.Textiles
    - 11.3.2.1.1. By Value (USD Million) 2024A-2034F
    - 11.3.2.1.2.Market Share (%) 2024A-2034F
    - 11.3.2.1.3.Y-o-Y Growth (%) 2024A-2034F
  - 11.3.2.2. Consumer Goods
    - 11.3.2.2.1.By Value (USD Million) 2024A-2034F
    - 11.3.2.2.2. Market Share (%) 2024A-2034F
    - 11.3.2.2.3. Y-o-Y Growth (%) 2024A-2034F
  - 11.3.2.3. Packaging
    - 11.3.2.3.1.By Value (USD Million) 2024A-2034F
    - 11.3.2.3.2. Market Share (%) 2024A-2034F
    - 11.3.2.3.3. Y-o-Y Growth (%) 2024A-2034F
  - 11.3.2.4. Agriculture
    - 11.3.2.4.1.By Value (USD Million) 2024A-2034F
    - 11.3.2.4.2. Market Share (%) 2024A-2034F
    - 11.3.2.4.3. Y-o-Y Growth (%) 2024A-2034F
  - 11.3.2.5. Medical
    - 11.3.2.5.1.By Value (USD Million) 2024A-2034F
    - 11.3.2.5.2. Market Share (%) 2024A-2034F
    - 11.3.2.5.3. Y-o-Y Growth (%) 2024A-2034F
  - 11.3.2.6. Others

11.3.2.6.1. By Value (USD Million) 2024A-2034F

11.3.2.6.2. Market Share (%) 2024A-2034F

11.3.2.6.3. Y-o-Y Growth (%) 2024A-2034F

## **12. NORTH AMERICA BIODEGRADABLE POLYMERS MARKET SIZE & FORECAST 2024A-2034F**

12.1. Overview

12.2. Key Findings

12.3. Market Segmentation

12.3.1. By Type

12.3.2. By Industry

12.4. Country

12.4.1. United States

12.4.2. Canada

## **13. EUROPE BIODEGRADABLE POLYMERS MARKET SIZE & FORECAST 2024A-2034F**

13.1. Overview

13.2. Key Findings

13.3. Market Segmentation

13.3.1. By Type

13.3.2. By Industry

13.4. Country

13.4.1. Germany

13.4.2. United Kingdom

13.4.3. France

13.4.4. Italy

13.4.5. Spain

13.4.6. Russia

13.4.7. Rest of Europe (BENELUX, NORDIC, Hungary, Turkey & Poland)

## **14. ASIA-PACIFIC BIODEGRADABLE POLYMERS MARKET SIZE & FORECAST 2024A-2034F**

14.1. Overview

14.2. Key Findings

14.3. Market Segmentation

- 14.3.1. By Type
- 14.3.2. By Industry
- 14.4. Country
  - 14.4.1. India
  - 14.4.2. China
  - 14.4.3. South Korea
  - 14.4.4. Japan
  - 14.4.5. Rest of APAC

## **15. MIDDLE EAST AND AFRICA BIODEGRADABLE POLYMERS MARKET SIZE & FORECAST 2024A-2034F**

- 15.1. Overview
- 15.2. Key Findings
- 15.3. Market Segmentation
  - 15.3.1. By Type
  - 15.3.2. By Industry
- 15.4. Country
  - 15.4.1. Israel
  - 15.4.2. GCC
  - 15.4.3. North Africa
  - 15.4.4. South Africa
  - 15.4.5. Rest of Middle East and Africa

## **16. LATIN AMERICA BIODEGRADABLE POLYMERS MARKET SIZE & FORECAST 2024A-2034F**

- 16.1. Overview
- 16.2. Key Findings
- 16.3. Market Segmentation
  - 16.3.1. By Type
  - 16.3.2. By Industry
- 16.4. Country
  - 16.4.1. Mexico
  - 16.4.2. Brazil
  - 16.4.3. Rest of Latin America

## **17. COMPETITIVE LANDSCAPE**

- 17.1. Company market share, 2023
- 17.2. Key player overview
- 17.3. Key stakeholders

## **18. COMPANY PROFILES**

- 18.1. NatureWorks LLC
  - 18.1.1. Company Overview
  - 18.1.2. Financial Overview
  - 18.1.3. Key Product; Analysis
  - 18.1.4. Company Assessment
    - 18.1.4.1. Product Portfolio
    - 18.1.4.2. Key Clients
    - 18.1.4.3. Market Share
    - 18.1.4.4. Recent News & Development (Last 3 Yrs.)
- 18.2. Novamont S.p.A.
- 18.3. BASF SE
- 18.4. Plantic Technologies Limited
- 18.5. Total Corbion PLA
- 18.6. BioMe Technologies plc
- 18.7. Changsu Jiangshan Packaging Materials Co., Ltd
- 18.8. Mitsubishi Chemical Corporation
- 18.9. FKuR Kunststoff GmbH
- 18.10. NaturTec
- 18.11. Evonik Health Care
- 18.12. Corbion N.V.
- 18.13. Green Dot Bioplastics
- 18.14. Jiangmen Xinshuo New Materials Co., Ltd
- 18.15. Cardia Bioplastics Limited
- 18.16. Other Prominent Players

## **19. APPENDIX**

## **20. CONSULTANT RECOMMENDATION**

## I would like to order

Product name: Biodegradable Polymers Market Size, Share, and Analysis, By Type (Polycaprolactone (PCL), Polyhydroxyalkanoates (PHA), Polylactic Acid (PLA), Starch Blends, Polybutylene Succinate (PBS), and Others), By Industry (Textiles, Consumer Goods, Packaging, Agriculture, Medical, and Others), By Region (North America, Europe, Asia-Pacific, and Rest of the World), And Regional Forecast 2024-2034

Product link: <https://marketpublishers.com/r/BD7682177568EN.html>

Price: US\$ 5,250.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/BD7682177568EN.html>