

Global Photodegradable Plastic Market Research Report 2025(Status and Outlook)

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Abstracts

Photodegradable plastic is a type of polymer material engineered to break down when exposed to specific environmental triggers, primarily ultraviolet (UV) radiation from sunlight, which initiates a chemical process that fragments the plastic into smaller pieces over time through mechanisms like chain scission and oxidation. Unlike biodegradable plastics that rely on microbial activity to decompose into natural byproducts, photodegradable plastics depend on light exposure to initiate degradation, though they do not fully mineralize and may leave behind microplastic residues. These materials are often formulated with additives such as metal stearates or ketones that accelerate the breakdown process under UV light, making them suitable for applications like agricultural mulch films, packaging, and disposable products where controlled degradation is desired in open environments. However, their effectiveness is highly dependent on environmental conditions such as sufficient sunlight exposure and oxygen availability and they are not a solution for waste in landfills or marine settings where light penetration is limited.

The global Photodegradable Plastic market size was estimated at USD 480.2 million in 2024 and is projected to grow at a compound annual growth rate (CAGR) of 8.75% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Photodegradable Plastic market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the

industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Photodegradable Plastic market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Photodegradable Plastic market.

Global Photodegradable Plastic Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Covestro
Kraiburg
BASF
Corbion
Cargill(Natureworks)
Biome Technologies
Mitsubishi Chemical
Kuraray

Bio-On

Market Segmentation (by Type)

Copolymer

Additive

Market Segmentation (by Application)

Packing Industry

Automotive Industry

Bottles Manufacturing

Others

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Photodegradable Plastic Market

Overview of the regional outlook of the Photodegradable Plastic Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Photodegradable Plastic Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Photodegradable Plastic, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value 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 concerning 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 from 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

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Photodegradable Plastic

1.2 Key Market Segments

1.2.1 Photodegradable Plastic Segment by Type

1.2.2 Photodegradable Plastic Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 PHOTODEGRADABLE PLASTIC MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Photodegradable Plastic Market Size (M USD) Estimates and Forecasts (2020-2033)

2.1.2 Global Photodegradable Plastic Sales Estimates and Forecasts (2020-2033)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 PHOTODEGRADABLE PLASTIC MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Photodegradable Plastic Product Life Cycle

3.3 Global Photodegradable Plastic Sales by Manufacturers (2020-2025)

3.4 Global Photodegradable Plastic Revenue Market Share by Manufacturers (2020-2025)

3.5 Photodegradable Plastic Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Photodegradable Plastic Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Photodegradable Plastic Market Competitive Situation and Trends

3.8.1 Photodegradable Plastic Market Concentration Rate

3.8.2 Global 5 and 10 Largest Photodegradable Plastic Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 PHOTODEGRADABLE PLASTIC INDUSTRY CHAIN ANALYSIS

- 4.1 Photodegradable Plastic Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF PHOTODEGRADABLE PLASTIC MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
 - 5.4.1 New Product Developments
 - 5.4.2 Mergers & Acquisitions
 - 5.4.3 Expansions
 - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
 - 5.5.1 Industry Policies Analysis
 - 5.5.2 Economic Environment Analysis
 - 5.5.3 Social Environment Analysis
 - 5.5.4 Technological Environment Analysis
- 5.6 Global Photodegradable Plastic Market Porter's Five Forces Analysis
 - 5.6.1 Global Trade Frictions
 - 5.6.2 U.S. Tariff Policy ? April 2025
 - 5.6.3 Global Trade Frictions and Their Impacts to Photodegradable Plastic Market
- 5.7 ESG Ratings of Leading Companies

6 PHOTODEGRADABLE PLASTIC MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Photodegradable Plastic Sales Market Share by Type (2020-2025)
- 6.3 Global Photodegradable Plastic Market Size Market Share by Type (2020-2025)
- 6.4 Global Photodegradable Plastic Price by Type (2020-2025)

7 PHOTODEGRADABLE PLASTIC MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Photodegradable Plastic Market Sales by Application (2020-2025)
- 7.3 Global Photodegradable Plastic Market Size (M USD) by Application (2020-2025)
- 7.4 Global Photodegradable Plastic Sales Growth Rate by Application (2020-2025)

8 PHOTODEGRADABLE PLASTIC MARKET SALES BY REGION

- 8.1 Global Photodegradable Plastic Sales by Region
 - 8.1.1 Global Photodegradable Plastic Sales by Region
 - 8.1.2 Global Photodegradable Plastic Sales Market Share by Region
- 8.2 Global Photodegradable Plastic Market Size by Region
 - 8.2.1 Global Photodegradable Plastic Market Size by Region
 - 8.2.2 Global Photodegradable Plastic Market Size Market Share by Region
- 8.3 North America
 - 8.3.1 North America Photodegradable Plastic Sales by Country
 - 8.3.2 North America Photodegradable Plastic Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe Photodegradable Plastic Sales by Country
 - 8.4.2 Europe Photodegradable Plastic Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific Photodegradable Plastic Sales by Region
 - 8.5.2 Asia Pacific Photodegradable Plastic Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview
 - 8.5.6 India Market Overview
 - 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Photodegradable Plastic Sales by Country
 - 8.6.2 South America Photodegradable Plastic Market Size by Country
 - 8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

8.7.1 Middle East and Africa Photodegradable Plastic Sales by Region

8.7.2 Middle East and Africa Photodegradable Plastic Market Size by Region

8.7.3 Saudi Arabia Market Overview

8.7.4 UAE Market Overview

8.7.5 Egypt Market Overview

8.7.6 Nigeria Market Overview

8.7.7 South Africa Market Overview

9 PHOTODEGRADABLE PLASTIC MARKET PRODUCTION BY REGION

9.1 Global Production of Photodegradable Plastic by Region(2020-2025)

9.2 Global Photodegradable Plastic Revenue Market Share by Region (2020-2025)

9.3 Global Photodegradable Plastic Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America Photodegradable Plastic Production

9.4.1 North America Photodegradable Plastic Production Growth Rate (2020-2025)

9.4.2 North America Photodegradable Plastic Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe Photodegradable Plastic Production

9.5.1 Europe Photodegradable Plastic Production Growth Rate (2020-2025)

9.5.2 Europe Photodegradable Plastic Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Photodegradable Plastic Production (2020-2025)

9.6.1 Japan Photodegradable Plastic Production Growth Rate (2020-2025)

9.6.2 Japan Photodegradable Plastic Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Photodegradable Plastic Production (2020-2025)

9.7.1 China Photodegradable Plastic Production Growth Rate (2020-2025)

9.7.2 China Photodegradable Plastic Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Covestro

10.1.1 Covestro Basic Information

10.1.2 Covestro Photodegradable Plastic Product Overview

- 10.1.3 Covestro Photodegradable Plastic Product Market Performance
- 10.1.4 Covestro Business Overview
- 10.1.5 Covestro SWOT Analysis
- 10.1.6 Covestro Recent Developments
- 10.2 Kraiburg
 - 10.2.1 Kraiburg Basic Information
 - 10.2.2 Kraiburg Photodegradable Plastic Product Overview
 - 10.2.3 Kraiburg Photodegradable Plastic Product Market Performance
 - 10.2.4 Kraiburg Business Overview
 - 10.2.5 Kraiburg SWOT Analysis
 - 10.2.6 Kraiburg Recent Developments
- 10.3 BASF
 - 10.3.1 BASF Basic Information
 - 10.3.2 BASF Photodegradable Plastic Product Overview
 - 10.3.3 BASF Photodegradable Plastic Product Market Performance
 - 10.3.4 BASF Business Overview
 - 10.3.5 BASF SWOT Analysis
 - 10.3.6 BASF Recent Developments
- 10.4 Corbion
 - 10.4.1 Corbion Basic Information
 - 10.4.2 Corbion Photodegradable Plastic Product Overview
 - 10.4.3 Corbion Photodegradable Plastic Product Market Performance
 - 10.4.4 Corbion Business Overview
 - 10.4.5 Corbion Recent Developments
- 10.5 Cargill(Natureworks)
 - 10.5.1 Cargill(Natureworks) Basic Information
 - 10.5.2 Cargill(Natureworks) Photodegradable Plastic Product Overview
 - 10.5.3 Cargill(Natureworks) Photodegradable Plastic Product Market Performance
 - 10.5.4 Cargill(Natureworks) Business Overview
 - 10.5.5 Cargill(Natureworks) Recent Developments
- 10.6 Biome Technologies
 - 10.6.1 Biome Technologies Basic Information
 - 10.6.2 Biome Technologies Photodegradable Plastic Product Overview
 - 10.6.3 Biome Technologies Photodegradable Plastic Product Market Performance
 - 10.6.4 Biome Technologies Business Overview
 - 10.6.5 Biome Technologies Recent Developments
- 10.7 Mitsubishi Chemical
 - 10.7.1 Mitsubishi Chemical Basic Information
 - 10.7.2 Mitsubishi Chemical Photodegradable Plastic Product Overview

10.7.3 Mitsubishi Chemical Photodegradable Plastic Product Market Performance

10.7.4 Mitsubishi Chemical Business Overview

10.7.5 Mitsubishi Chemical Recent Developments

10.8 Kuraray

10.8.1 Kuraray Basic Information

10.8.2 Kuraray Photodegradable Plastic Product Overview

10.8.3 Kuraray Photodegradable Plastic Product Market Performance

10.8.4 Kuraray Business Overview

10.8.5 Kuraray Recent Developments

10.9 Bio-On

10.9.1 Bio-On Basic Information

10.9.2 Bio-On Photodegradable Plastic Product Overview

10.9.3 Bio-On Photodegradable Plastic Product Market Performance

10.9.4 Bio-On Business Overview

10.9.5 Bio-On Recent Developments

11 PHOTODEGRADABLE PLASTIC MARKET FORECAST BY REGION

11.1 Global Photodegradable Plastic Market Size Forecast

11.2 Global Photodegradable Plastic Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Photodegradable Plastic Market Size Forecast by Country

11.2.3 Asia Pacific Photodegradable Plastic Market Size Forecast by Region

11.2.4 South America Photodegradable Plastic Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Photodegradable Plastic by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2033)

12.1 Global Photodegradable Plastic Market Forecast by Type (2026-2033)

12.1.1 Global Forecasted Sales of Photodegradable Plastic by Type (2026-2033)

12.1.2 Global Photodegradable Plastic Market Size Forecast by Type (2026-2033)

12.1.3 Global Forecasted Price of Photodegradable Plastic by Type (2026-2033)

12.2 Global Photodegradable Plastic Market Forecast by Application (2026-2033)

12.2.1 Global Photodegradable Plastic Sales (K MT) Forecast by Application

12.2.2 Global Photodegradable Plastic Market Size (M USD) Forecast by Application (2026-2033)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type
Table 2. Introduction of the Application
Table 3. Market Size (M USD) Segment Executive Summary
Table 4. Photodegradable Plastic Market Size Comparison by Region (M USD)
Table 5. Global Photodegradable Plastic Sales (K MT) by Manufacturers (2020-2025)
Table 6. Global Photodegradable Plastic Sales Market Share by Manufacturers (2020-2025)
Table 7. Global Photodegradable Plastic Revenue (M USD) by Manufacturers (2020-2025)
Table 8. Global Photodegradable Plastic Revenue Share by Manufacturers (2020-2025)
Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Photodegradable Plastic as of 2024)
Table 10. Global Market Photodegradable Plastic Average Price (USD/KG) of Key Manufacturers (2020-2025)
Table 11. Manufacturers? Manufacturing Sites, Areas Served
Table 12. Manufacturers? Product Type
Table 13. Global Photodegradable Plastic Manufacturers Market Concentration Ratio (CR5 and HHI)
Table 14. Mergers & Acquisitions, Expansion Plans
Table 15. Market Overview of Key Raw Materials
Table 16. Midstream Market Analysis
Table 17. Downstream Customer Analysis
Table 18. Key Development Trends
Table 19. Driving Factors
Table 20. Photodegradable Plastic Market Challenges
Table 21. Goldman Sachs' forecast real GDP growth rate for 2024-2026
Table 22. S&P Global ' Forecast Real GDP Growth Rate For 2024-2027
Table 23. World Bank ' Forecast Real GDP Growth Rate For 2024-2026
Table 24. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries
Table 25. Global Photodegradable Plastic Sales by Type (K MT)
Table 26. Global Photodegradable Plastic Market Size by Type (M USD)
Table 27. Global Photodegradable Plastic Sales (K MT) by Type (2020-2025)
Table 28. Global Photodegradable Plastic Sales Market Share by Type (2020-2025)
Table 29. Global Photodegradable Plastic Market Size (M USD) by Type (2020-2025)

Table 30. Global Photodegradable Plastic Market Size Share by Type (2020-2025)

Table 31. Global Photodegradable Plastic Price (USD/KG) by Type (2020-2025)

Table 32. Global Photodegradable Plastic Sales (K MT) by Application

Table 33. Global Photodegradable Plastic Market Size by Application

Table 34. Global Photodegradable Plastic Sales by Application (2020-2025) & (K MT)

Table 35. Global Photodegradable Plastic Sales Market Share by Application
(2020-2025)

Table 36. Global Photodegradable Plastic Market Size by Application (2020-2025) & (M
USD)

Table 37. Global Photodegradable Plastic Market Share by Application (2020-2025)

Table 38. Global Photodegradable Plastic Sales Growth Rate by Application
(2020-2025)

Table 39. Global Photodegradable Plastic Sales by Region (2020-2025) & (K MT)

Table 40. Global Photodegradable Plastic Sales Market Share by Region (2020-2025)

Table 41. Global Photodegradable Plastic Market Size by Region (2020-2025) & (M
USD)

Table 42. Global Photodegradable Plastic Market Size Market Share by Region
(2020-2025)

Table 43. North America Photodegradable Plastic Sales by Country (2020-2025) & (K
MT)

Table 44. North America Photodegradable Plastic Market Size by Country (2020-2025)
& (M USD)

Table 45. Europe Photodegradable Plastic Sales by Country (2020-2025) & (K MT)

Table 46. Europe Photodegradable Plastic Market Size by Country (2020-2025) & (M
USD)

Table 47. Asia Pacific Photodegradable Plastic Sales by Region (2020-2025) & (K MT)

Table 48. Asia Pacific Photodegradable Plastic Market Size by Region (2020-2025) &
(M USD)

Table 49. South America Photodegradable Plastic Sales by Country (2020-2025) & (K
MT)

Table 50. South America Photodegradable Plastic Market Size by Country (2020-2025)
& (M USD)

Table 51. Middle East and Africa Photodegradable Plastic Sales by Region (2020-2025)
& (K MT)

Table 52. Middle East and Africa Photodegradable Plastic Market Size by Region
(2020-2025) & (M USD)

Table 53. Global Photodegradable Plastic Production (K MT) by Region(2020-2025)

Table 54. Global Photodegradable Plastic Revenue (US\$ Million) by Region
(2020-2025)

Table 55. Global Photodegradable Plastic Revenue Market Share by Region (2020-2025)

Table 56. Global Photodegradable Plastic Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 57. North America Photodegradable Plastic Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 58. Europe Photodegradable Plastic Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 59. Japan Photodegradable Plastic Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 60. China Photodegradable Plastic Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 61. Covestro Basic Information

Table 62. Covestro Photodegradable Plastic Product Overview

Table 63. Covestro Photodegradable Plastic Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 64. Covestro Business Overview

Table 65. Covestro SWOT Analysis

Table 66. Covestro Recent Developments

Table 67. Kraiburg Basic Information

Table 68. Kraiburg Photodegradable Plastic Product Overview

Table 69. Kraiburg Photodegradable Plastic Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 70. Kraiburg Business Overview

Table 71. Kraiburg SWOT Analysis

Table 72. Kraiburg Recent Developments

Table 73. BASF Basic Information

Table 74. BASF Photodegradable Plastic Product Overview

Table 75. BASF Photodegradable Plastic Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 76. BASF Business Overview

Table 77. BASF SWOT Analysis

Table 78. BASF Recent Developments

Table 79. Corbion Basic Information

Table 80. Corbion Photodegradable Plastic Product Overview

Table 81. Corbion Photodegradable Plastic Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 82. Corbion Business Overview

Table 83. Corbion Recent Developments

Table 84. Cargill(Natureworks) Basic Information
Table 85. Cargill(Natureworks) Photodegradable Plastic Product Overview
Table 86. Cargill(Natureworks) Photodegradable Plastic Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
Table 87. Cargill(Natureworks) Business Overview
Table 88. Cargill(Natureworks) Recent Developments
Table 89. Biome Technologies Basic Information
Table 90. Biome Technologies Photodegradable Plastic Product Overview
Table 91. Biome Technologies Photodegradable Plastic Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
Table 92. Biome Technologies Business Overview
Table 93. Biome Technologies Recent Developments
Table 94. Mitsubishi Chemical Basic Information
Table 95. Mitsubishi Chemical Photodegradable Plastic Product Overview
Table 96. Mitsubishi Chemical Photodegradable Plastic Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
Table 97. Mitsubishi Chemical Business Overview
Table 98. Mitsubishi Chemical Recent Developments
Table 99. Kuraray Basic Information
Table 100. Kuraray Photodegradable Plastic Product Overview
Table 101. Kuraray Photodegradable Plastic Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
Table 102. Kuraray Business Overview
Table 103. Kuraray Recent Developments
Table 104. Bio-On Basic Information
Table 105. Bio-On Photodegradable Plastic Product Overview
Table 106. Bio-On Photodegradable Plastic Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
Table 107. Bio-On Business Overview
Table 108. Bio-On Recent Developments
Table 109. Global Photodegradable Plastic Sales Forecast by Region (2026-2033) & (K MT)
Table 110. Global Photodegradable Plastic Market Size Forecast by Region (2026-2033) & (M USD)
Table 111. North America Photodegradable Plastic Sales Forecast by Country (2026-2033) & (K MT)
Table 112. North America Photodegradable Plastic Market Size Forecast by Country (2026-2033) & (M USD)
Table 113. Europe Photodegradable Plastic Sales Forecast by Country (2026-2033) &

(K MT)

Table 114. Europe Photodegradable Plastic Market Size Forecast by Country
(2026-2033) & (M USD)

Table 115. Asia Pacific Photodegradable Plastic Sales Forecast by Region (2026-2033)
& (K MT)

Table 116. Asia Pacific Photodegradable Plastic Market Size Forecast by Region
(2026-2033) & (M USD)

Table 117. South America Photodegradable Plastic Sales Forecast by Country
(2026-2033) & (K MT)

Table 118. South America Photodegradable Plastic Market Size Forecast by Country
(2026-2033) & (M USD)

Table 119. Middle East and Africa Photodegradable Plastic Sales Forecast by Country
(2026-2033) & (Units)

Table 120. Middle East and Africa Photodegradable Plastic Market Size Forecast by
Country (2026-2033) & (M USD)

Table 121. Global Photodegradable Plastic Sales Forecast by Type (2026-2033) & (K
MT)

Table 122. Global Photodegradable Plastic Market Size Forecast by Type (2026-2033)
& (M USD)

Table 123. Global Photodegradable Plastic Price Forecast by Type (2026-2033) &
(USD/KG)

Table 124. Global Photodegradable Plastic Sales (K MT) Forecast by Application
(2026-2033)

Table 125. Global Photodegradable Plastic Market Size Forecast by Application
(2026-2033) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Photodegradable Plastic
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Photodegradable Plastic Market Size (M USD), 2024-2033
- Figure 5. Global Photodegradable Plastic Market Size (M USD) (2020-2033)
- Figure 6. Global Photodegradable Plastic Sales (K MT) & (2020-2033)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Photodegradable Plastic Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Photodegradable Plastic Product Life Cycle
- Figure 13. Photodegradable Plastic Sales Share by Manufacturers in 2024
- Figure 14. Global Photodegradable Plastic Revenue Share by Manufacturers in 2024
- Figure 15. Photodegradable Plastic Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2024
- Figure 16. Global Market Photodegradable Plastic Average Price (USD/KG) of Key Manufacturers in 2024
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Photodegradable Plastic Revenue in 2024
- Figure 18. Industry Chain Map of Photodegradable Plastic
- Figure 19. Global Photodegradable Plastic Market PEST Analysis
- Figure 20. Global Photodegradable Plastic Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Photodegradable Plastic Market Share by Type
- Figure 27. Sales Market Share of Photodegradable Plastic by Type (2020-2025)
- Figure 28. Sales Market Share of Photodegradable Plastic by Type in 2024
- Figure 29. Market Size Share of Photodegradable Plastic by Type (2020-2025)
- Figure 30. Market Size Share of Photodegradable Plastic by Type in 2024
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Photodegradable Plastic Market Share by Application

Figure 33. Global Photodegradable Plastic Sales Market Share by Application (2020-2025)

Figure 34. Global Photodegradable Plastic Sales Market Share by Application in 2024

Figure 35. Global Photodegradable Plastic Market Share by Application (2020-2025)

Figure 36. Global Photodegradable Plastic Market Share by Application in 2024

Figure 37. Global Photodegradable Plastic Sales Growth Rate by Application (2020-2025)

Figure 38. Global Photodegradable Plastic Sales Market Share by Region (2020-2025)

Figure 39. Global Photodegradable Plastic Market Size Market Share by Region (2020-2025)

Figure 40. North America Photodegradable Plastic Sales and Growth Rate (2020-2025) & (K MT)

Figure 41. North America Photodegradable Plastic Sales and Growth Rate (2020-2025) & (K MT)

Figure 42. North America Photodegradable Plastic Sales Market Share by Country in 2024

Figure 43. North America Photodegradable Plastic Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Photodegradable Plastic Market Size Market Share by Country in 2024

Figure 45. U.S. Photodegradable Plastic Sales and Growth Rate (2020-2025) & (K MT)

Figure 46. U.S. Photodegradable Plastic Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Photodegradable Plastic Sales (K MT) and Growth Rate (2020-2025)

Figure 48. Canada Photodegradable Plastic Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Photodegradable Plastic Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Photodegradable Plastic Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Photodegradable Plastic Sales and Growth Rate (2020-2025) & (K MT)

Figure 52. Europe Photodegradable Plastic Sales Market Share by Country in 2024

Figure 53. Europe Photodegradable Plastic Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Photodegradable Plastic Market Size Market Share by Country in 2024

Figure 55. Germany Photodegradable Plastic Sales and Growth Rate (2020-2025) & (K MT)

Figure 56. Germany Photodegradable Plastic Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Photodegradable Plastic Sales and Growth Rate (2020-2025) & (K MT)

Figure 58. France Photodegradable Plastic Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Photodegradable Plastic Sales and Growth Rate (2020-2025) & (K MT)

Figure 60. U.K. Photodegradable Plastic Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Photodegradable Plastic Sales and Growth Rate (2020-2025) & (K MT)

Figure 62. Italy Photodegradable Plastic Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Photodegradable Plastic Sales and Growth Rate (2020-2025) & (K MT)

Figure 64. Spain Photodegradable Plastic Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Photodegradable Plastic Sales and Growth Rate (K MT)

Figure 66. Asia Pacific Photodegradable Plastic Sales Market Share by Region in 2024

Figure 67. Asia Pacific Photodegradable Plastic Market Size Market Share by Region in 2024

Figure 68. China Photodegradable Plastic Sales and Growth Rate (2020-2025) & (K MT)

Figure 69. China Photodegradable Plastic Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Photodegradable Plastic Sales and Growth Rate (2020-2025) & (K MT)

Figure 71. Japan Photodegradable Plastic Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Photodegradable Plastic Sales and Growth Rate (2020-2025) & (K MT)

Figure 73. South Korea Photodegradable Plastic Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Photodegradable Plastic Sales and Growth Rate (2020-2025) & (K MT)

Figure 75. India Photodegradable Plastic Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Photodegradable Plastic Sales and Growth Rate (2020-2025) & (K MT)

Figure 77. Southeast Asia Photodegradable Plastic Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Photodegradable Plastic Sales and Growth Rate (K MT)

Figure 79. South America Photodegradable Plastic Sales Market Share by Country in 2024

Figure 80. South America Photodegradable Plastic Market Size and Growth Rate (M USD)

Figure 81. South America Photodegradable Plastic Market Size Market Share by Country in 2024

Figure 82. Brazil Photodegradable Plastic Sales and Growth Rate (2020-2025) & (K MT)

Figure 83. Brazil Photodegradable Plastic Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Photodegradable Plastic Sales and Growth Rate (2020-2025) & (K MT)

Figure 85. Argentina Photodegradable Plastic Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Photodegradable Plastic Sales and Growth Rate (2020-2025) & (K MT)

Figure 87. Columbia Photodegradable Plastic Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Photodegradable Plastic Sales and Growth Rate (K MT)

Figure 89. Middle East and Africa Photodegradable Plastic Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Photodegradable Plastic Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Photodegradable Plastic Market Size Market Share by Region in 2024

Figure 92. Saudi Arabia Photodegradable Plastic Sales and Growth Rate (2020-2025) & (K MT)

Figure 93. Saudi Arabia Photodegradable Plastic Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Photodegradable Plastic Sales and Growth Rate (2020-2025) & (K MT)

Figure 95. UAE Photodegradable Plastic Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Photodegradable Plastic Sales and Growth Rate (2020-2025) & (K MT)

Figure 97. Egypt Photodegradable Plastic Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Photodegradable Plastic Sales and Growth Rate (2020-2025) & (K

MT)

Figure 99. Nigeria Photodegradable Plastic Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Photodegradable Plastic Sales and Growth Rate (2020-2025) & (K MT)

Figure 101. South Africa Photodegradable Plastic Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Photodegradable Plastic Production Market Share by Region (2020-2025)

Figure 103. North America Photodegradable Plastic Production (K MT) Growth Rate (2020-2025)

Figure 104. Europe Photodegradable Plastic Production (K MT) Growth Rate (2020-2025)

Figure 105. Japan Photodegradable Plastic Production (K MT) Growth Rate (2020-2025)

Figure 106. China Photodegradable Plastic Production (K MT) Growth Rate (2020-2025)

Figure 107. Global Photodegradable Plastic Sales Forecast by Volume (2020-2033) & (K MT)

Figure 108. Global Photodegradable Plastic Market Size Forecast by Value (2020-2033) & (M USD)

Figure 109. Global Photodegradable Plastic Sales Market Share Forecast by Type (2026-2033)

Figure 110. Global Photodegradable Plastic Market Share Forecast by Type (2026-2033)

Figure 111. Global Photodegradable Plastic Sales Forecast by Application (2026-2033)

Figure 112. Global Photodegradable Plastic Market Share Forecast by Application (2026-2033)

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