

Global Enzymatic Plastic Degradation Market Research Report 2026(Status and Outlook)

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Abstracts

Enzymatic plastic degradation refers to the biological process by which certain enzymes break down plastic materials into simpler, less harmful components. Unlike traditional physical or chemical recycling methods, enzymatic degradation leverages specific enzymes produced by microorganisms, such as bacteria and fungi, which can metabolize plastics like polyethylene and PET (polyethylene terephthalate). These enzymes act as catalysts to degrade the plastic polymers, reducing them to smaller molecules that can be further broken down or assimilated by the environment. This process offers a potentially sustainable solution to the growing issue of plastic waste, as it can lead to more efficient and eco-friendly recycling and disposal methods, while mitigating the environmental impact of plastic pollution.

The global Enzymatic Plastic Degradation market size was estimated at USD 53.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 16.90% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Enzymatic Plastic Degradation 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 Enzymatic Plastic Degradation 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 Enzymatic Plastic Degradation market.

Global Enzymatic Plastic Degradation 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

Carbios
Samsara Eco
Protein Evolution
Epoch Biodesign
Yuantian Biotechnology
Birch Biosciences
Enzymity
Plasticentropy

Market Segmentation (by Type)

PET
PEF

PE
Others

Market Segmentation (by Application)

Food and Beverages
Clothing and Textiles
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 Enzymatic Plastic Degradation Market
Overview of the regional outlook of the Enzymatic Plastic Degradation Market:

Customization of the Report

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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 Enzymatic Plastic Degradation 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 Enzymatic Plastic Degradation, 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

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Enzymatic Plastic Degradation
- 1.2 Key Market Segments
 - 1.2.1 Enzymatic Plastic Degradation Segment by Type
 - 1.2.2 Enzymatic Plastic Degradation 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 ENZYMATIC PLASTIC DEGRADATION MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Enzymatic Plastic Degradation Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global Enzymatic Plastic Degradation Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 ENZYMATIC PLASTIC DEGRADATION MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Enzymatic Plastic Degradation Product Life Cycle
- 3.3 Global Enzymatic Plastic Degradation Sales by Manufacturers (2020-2025)
- 3.4 Global Enzymatic Plastic Degradation Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Enzymatic Plastic Degradation Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Enzymatic Plastic Degradation Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Enzymatic Plastic Degradation Market Competitive Situation and Trends
 - 3.8.1 Enzymatic Plastic Degradation Market Concentration Rate
 - 3.8.2 Global 5 and 10 Largest Enzymatic Plastic Degradation Players Market Share by

Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 ENZYMATIC PLASTIC DEGRADATION INDUSTRY CHAIN ANALYSIS

4.1 Enzymatic Plastic Degradation 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 ENZYMATIC PLASTIC DEGRADATION 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 Enzymatic Plastic Degradation 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 Enzymatic Plastic Degradation

Market

5.7 ESG Ratings of Leading Companies

6 ENZYMATIC PLASTIC DEGRADATION MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Enzymatic Plastic Degradation Sales Market Share by Type (2020-2025)

6.3 Global Enzymatic Plastic Degradation Market Size by Type (2020-2025)

6.4 Global Enzymatic Plastic Degradation Price by Type (2020-2025)

7 ENZYMATIC PLASTIC DEGRADATION MARKET SEGMENTATION BY APPLICATION

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

8 ENZYMATIC PLASTIC DEGRADATION MARKET SALES BY REGION

- 8.1 Global Enzymatic Plastic Degradation Sales by Region
 - 8.1.1 Global Enzymatic Plastic Degradation Sales by Region
 - 8.1.2 Global Enzymatic Plastic Degradation Sales Market Share by Region
- 8.2 Global Enzymatic Plastic Degradation Market Size by Region
 - 8.2.1 Global Enzymatic Plastic Degradation Market Size by Region
 - 8.2.2 Global Enzymatic Plastic Degradation Market Size by Region
- 8.3 North America
 - 8.3.1 North America Enzymatic Plastic Degradation Sales by Country
 - 8.3.2 North America Enzymatic Plastic Degradation 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 Enzymatic Plastic Degradation Sales by Country
 - 8.4.2 Europe Enzymatic Plastic Degradation 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 Enzymatic Plastic Degradation Sales by Region
 - 8.5.2 Asia Pacific Enzymatic Plastic Degradation 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 Enzymatic Plastic Degradation Sales by Country
 - 8.6.2 South America Enzymatic Plastic Degradation 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 Enzymatic Plastic Degradation Sales by Region
 - 8.7.2 Middle East and Africa Enzymatic Plastic Degradation 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 ENZYMATIC PLASTIC DEGRADATION MARKET PRODUCTION BY REGION

- 9.1 Global Production of Enzymatic Plastic Degradation by Region(2020-2025)
- 9.2 Global Enzymatic Plastic Degradation Revenue Market Share by Region (2020-2025)
- 9.3 Global Enzymatic Plastic Degradation Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Enzymatic Plastic Degradation Production
 - 9.4.1 North America Enzymatic Plastic Degradation Production Growth Rate (2020-2025)
 - 9.4.2 North America Enzymatic Plastic Degradation Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Enzymatic Plastic Degradation Production
 - 9.5.1 Europe Enzymatic Plastic Degradation Production Growth Rate (2020-2025)
 - 9.5.2 Europe Enzymatic Plastic Degradation Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Enzymatic Plastic Degradation Production (2020-2025)
 - 9.6.1 Japan Enzymatic Plastic Degradation Production Growth Rate (2020-2025)
 - 9.6.2 Japan Enzymatic Plastic Degradation Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Enzymatic Plastic Degradation Production (2020-2025)
 - 9.7.1 China Enzymatic Plastic Degradation Production Growth Rate (2020-2025)

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

10 KEY COMPANIES PROFILE

10.1 Carbios

- 10.1.1 Carbios Basic Information
- 10.1.2 Carbios Enzymatic Plastic Degradation Product Overview
- 10.1.3 Carbios Enzymatic Plastic Degradation Product Market Performance
- 10.1.4 Carbios Business Overview
- 10.1.5 Carbios SWOT Analysis
- 10.1.6 Carbios Recent Developments

10.2 Samsara Eco

- 10.2.1 Samsara Eco Basic Information
- 10.2.2 Samsara Eco Enzymatic Plastic Degradation Product Overview
- 10.2.3 Samsara Eco Enzymatic Plastic Degradation Product Market Performance
- 10.2.4 Samsara Eco Business Overview
- 10.2.5 Samsara Eco SWOT Analysis
- 10.2.6 Samsara Eco Recent Developments

10.3 Protein Evolution

- 10.3.1 Protein Evolution Basic Information
- 10.3.2 Protein Evolution Enzymatic Plastic Degradation Product Overview
- 10.3.3 Protein Evolution Enzymatic Plastic Degradation Product Market Performance
- 10.3.4 Protein Evolution Business Overview
- 10.3.5 Protein Evolution SWOT Analysis
- 10.3.6 Protein Evolution Recent Developments

10.4 Epoch Biodesign

- 10.4.1 Epoch Biodesign Basic Information
- 10.4.2 Epoch Biodesign Enzymatic Plastic Degradation Product Overview
- 10.4.3 Epoch Biodesign Enzymatic Plastic Degradation Product Market Performance
- 10.4.4 Epoch Biodesign Business Overview
- 10.4.5 Epoch Biodesign Recent Developments

10.5 Yuantian Biotechnology

- 10.5.1 Yuantian Biotechnology Basic Information
- 10.5.2 Yuantian Biotechnology Enzymatic Plastic Degradation Product Overview
- 10.5.3 Yuantian Biotechnology Enzymatic Plastic Degradation Product Market Performance
- 10.5.4 Yuantian Biotechnology Business Overview
- 10.5.5 Yuantian Biotechnology Recent Developments

10.6 Birch Biosciences

10.6.1 Birch Biosciences Basic Information

10.6.2 Birch Biosciences Enzymatic Plastic Degradation Product Overview

10.6.3 Birch Biosciences Enzymatic Plastic Degradation Product Market Performance

10.6.4 Birch Biosciences Business Overview

10.6.5 Birch Biosciences Recent Developments

10.7 Enzymity

10.7.1 Enzymity Basic Information

10.7.2 Enzymity Enzymatic Plastic Degradation Product Overview

10.7.3 Enzymity Enzymatic Plastic Degradation Product Market Performance

10.7.4 Enzymity Business Overview

10.7.5 Enzymity Recent Developments

10.8 Plasticentropy

10.8.1 Plasticentropy Basic Information

10.8.2 Plasticentropy Enzymatic Plastic Degradation Product Overview

10.8.3 Plasticentropy Enzymatic Plastic Degradation Product Market Performance

10.8.4 Plasticentropy Business Overview

10.8.5 Plasticentropy Recent Developments

11 ENZYMATIC PLASTIC DEGRADATION MARKET FORECAST BY REGION

11.1 Global Enzymatic Plastic Degradation Market Size Forecast

11.2 Global Enzymatic Plastic Degradation Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Enzymatic Plastic Degradation Market Size Forecast by Country

11.2.3 Asia Pacific Enzymatic Plastic Degradation Market Size Forecast by Region

11.2.4 South America Enzymatic Plastic Degradation Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Enzymatic Plastic Degradation by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global Enzymatic Plastic Degradation Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Enzymatic Plastic Degradation by Type (2026-2035)

12.1.2 Global Enzymatic Plastic Degradation Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Enzymatic Plastic Degradation by Type (2026-2035)

12.2 Global Enzymatic Plastic Degradation Market Forecast by Application (2026-2035)

12.2.1 Global Enzymatic Plastic Degradation Sales (K MT) Forecast by Application
12.2.2 Global Enzymatic Plastic Degradation Market Size (M USD) Forecast by
Application (2026-2035)

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. Global Enzymatic Plastic Degradation Market Size by Type (M USD)

Table 4. Global Enzymatic Plastic Degradation Market Size by Application

Table 5. Enzymatic Plastic Degradation Market Size Comparison by Region (M USD)

Table 6. Global Enzymatic Plastic Degradation Sales (K MT) by Manufacturers (2020-2025)

Table 7. Global Enzymatic Plastic Degradation Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Enzymatic Plastic Degradation Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Enzymatic Plastic Degradation Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Enzymatic Plastic Degradation as of 2025)

Table 11. Global Market Enzymatic Plastic Degradation Average Price (USD/KG) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Enzymatic Plastic Degradation Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Enzymatic Plastic Degradation Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global Enzymatic Plastic Degradation Sales by Type (K MT)

Table 27. Global Enzymatic Plastic Degradation Market Size by Type (M USD)

Table 28. Global Enzymatic Plastic Degradation Sales (K MT) by Type (2020-2025)

Table 29. Global Enzymatic Plastic Degradation Sales Market Share by Type (2020-2025)

Table 30. Global Enzymatic Plastic Degradation Market Size (M USD) by Type (2020-2025)

Table 31. Global Enzymatic Plastic Degradation Market Share by Type (2020-2025)

Table 32. Global Enzymatic Plastic Degradation Price (USD/KG) by Type (2020-2025)

Table 33. Global Enzymatic Plastic Degradation Sales (K MT) by Application

Table 34. Global Enzymatic Plastic Degradation Market Size by Application

Table 35. Global Enzymatic Plastic Degradation Sales by Application (2020-2025) & (K MT)

Table 36. Global Enzymatic Plastic Degradation Sales Market Share by Application (2020-2025)

Table 37. Global Enzymatic Plastic Degradation Market Size by Application (2020-2025) & (M USD)

Table 38. Global Enzymatic Plastic Degradation Market Share by Application (2020-2025)

Table 39. Global Enzymatic Plastic Degradation Sales Growth Rate by Application (2020-2025)

Table 40. Global Enzymatic Plastic Degradation Sales by Region (2020-2025) & (K MT)

Table 41. Global Enzymatic Plastic Degradation Sales Market Share by Region (2020-2025)

Table 42. Global Enzymatic Plastic Degradation Market Size by Region (2020-2025) & (M USD)

Table 43. Global Enzymatic Plastic Degradation Market Size by Region (2020-2025)

Table 44. North America Enzymatic Plastic Degradation Sales by Country (2020-2025) & (K MT)

Table 45. North America Enzymatic Plastic Degradation Market Size by Country (2020-2025) & (M USD)

Table 46. Europe Enzymatic Plastic Degradation Sales by Country (2020-2025) & (K MT)

Table 47. Europe Enzymatic Plastic Degradation Market Size by Country (2020-2025) & (M USD)

Table 48. Asia Pacific Enzymatic Plastic Degradation Sales by Region (2020-2025) & (K MT)

Table 49. Asia Pacific Enzymatic Plastic Degradation Market Size by Region (2020-2025) & (M USD)

Table 50. South America Enzymatic Plastic Degradation Sales by Country (2020-2025) & (K MT)

Table 51. South America Enzymatic Plastic Degradation Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa Enzymatic Plastic Degradation Sales by Region (2020-2025) & (K MT)

Table 53. Middle East and Africa Enzymatic Plastic Degradation Market Size by Region (2020-2025) & (M USD)

Table 54. Global Enzymatic Plastic Degradation Production (K MT) by Region(2020-2025)

Table 55. Global Enzymatic Plastic Degradation Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Enzymatic Plastic Degradation Revenue Market Share by Region (2020-2025)

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

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

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

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

Table 61. China Enzymatic Plastic Degradation Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 62. Carbios Basic Information

Table 63. Carbios Enzymatic Plastic Degradation Product Overview

Table 64. Carbios Enzymatic Plastic Degradation Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 65. Carbios Business Overview

Table 66. Carbios SWOT Analysis

Table 67. Carbios Recent Developments

Table 68. Samsara Eco Basic Information

Table 69. Samsara Eco Enzymatic Plastic Degradation Product Overview

Table 70. Samsara Eco Enzymatic Plastic Degradation Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 71. Samsara Eco Business Overview

Table 72. Samsara Eco SWOT Analysis

Table 73. Samsara Eco Recent Developments

Table 74. Protein Evolution Basic Information

Table 75. Protein Evolution Enzymatic Plastic Degradation Product Overview

Table 76. Protein Evolution Enzymatic Plastic Degradation Sales (K MT), Revenue (M

USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 77. Protein Evolution Business Overview

Table 78. Protein Evolution SWOT Analysis

Table 79. Protein Evolution Recent Developments

Table 80. Epoch Biodesign Basic Information

Table 81. Epoch Biodesign Enzymatic Plastic Degradation Product Overview

Table 82. Epoch Biodesign Enzymatic Plastic Degradation Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 83. Epoch Biodesign Business Overview

Table 84. Epoch Biodesign Recent Developments

Table 85. Yuantian Biotechnology Basic Information

Table 86. Yuantian Biotechnology Enzymatic Plastic Degradation Product Overview

Table 87. Yuantian Biotechnology Enzymatic Plastic Degradation Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 88. Yuantian Biotechnology Business Overview

Table 89. Yuantian Biotechnology Recent Developments

Table 90. Birch Biosciences Basic Information

Table 91. Birch Biosciences Enzymatic Plastic Degradation Product Overview

Table 92. Birch Biosciences Enzymatic Plastic Degradation Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 93. Birch Biosciences Business Overview

Table 94. Birch Biosciences Recent Developments

Table 95. Enzymity Basic Information

Table 96. Enzymity Enzymatic Plastic Degradation Product Overview

Table 97. Enzymity Enzymatic Plastic Degradation Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 98. Enzymity Business Overview

Table 99. Enzymity Recent Developments

Table 100. Plasticentropy Basic Information

Table 101. Plasticentropy Enzymatic Plastic Degradation Product Overview

Table 102. Plasticentropy Enzymatic Plastic Degradation Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 103. Plasticentropy Business Overview

Table 104. Plasticentropy Recent Developments

Table 105. Global Enzymatic Plastic Degradation Sales Forecast by Region (2026-2035) & (K MT)

Table 106. Global Enzymatic Plastic Degradation Market Size Forecast by Region (2026-2035) & (M USD)

Table 107. North America Enzymatic Plastic Degradation Sales Forecast by Country

(2026-2035) & (K MT)

Table 108. North America Enzymatic Plastic Degradation Market Size Forecast by Country (2026-2035) & (M USD)

Table 109. Europe Enzymatic Plastic Degradation Sales Forecast by Country (2026-2035) & (K MT)

Table 110. Europe Enzymatic Plastic Degradation Market Size Forecast by Country (2026-2035) & (M USD)

Table 111. Asia Pacific Enzymatic Plastic Degradation Sales Forecast by Region (2026-2035) & (K MT)

Table 112. Asia Pacific Enzymatic Plastic Degradation Market Size Forecast by Region (2026-2035) & (M USD)

Table 113. South America Enzymatic Plastic Degradation Sales Forecast by Country (2026-2035) & (K MT)

Table 114. South America Enzymatic Plastic Degradation Market Size Forecast by Country (2026-2035) & (M USD)

Table 115. Middle East and Africa Enzymatic Plastic Degradation Sales Forecast by Country (2026-2035) & (Units)

Table 116. Middle East and Africa Enzymatic Plastic Degradation Market Size Forecast by Country (2026-2035) & (M USD)

Table 117. Global Enzymatic Plastic Degradation Sales Forecast by Type (2026-2035) & (K MT)

Table 118. Global Enzymatic Plastic Degradation Market Size Forecast by Type (2026-2035) & (M USD)

Table 119. Global Enzymatic Plastic Degradation Price Forecast by Type (2026-2035) & (USD/KG)

Table 120. Global Enzymatic Plastic Degradation Sales (K MT) Forecast by Application (2026-2035)

Table 121. Global Enzymatic Plastic Degradation Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Enzymatic Plastic Degradation
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Enzymatic Plastic Degradation Market Size (M USD), 2025-2035
- Figure 5. Global Enzymatic Plastic Degradation Market Size (M USD) (2020-2035)
- Figure 6. Global Enzymatic Plastic Degradation Sales (K MT) & (2020-2035)
- 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. Enzymatic Plastic Degradation Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Enzymatic Plastic Degradation Product Life Cycle
- Figure 13. Enzymatic Plastic Degradation Sales Share by Manufacturers in 2025
- Figure 14. Global Enzymatic Plastic Degradation Revenue Share by Manufacturers in 2025
- Figure 15. Enzymatic Plastic Degradation Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Enzymatic Plastic Degradation Average Price (USD/KG) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Enzymatic Plastic Degradation Revenue in 2025
- Figure 18. Industry Chain Map of Enzymatic Plastic Degradation
- Figure 19. Global Enzymatic Plastic Degradation Market PEST Analysis
- Figure 20. Global Enzymatic Plastic Degradation 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 Enzymatic Plastic Degradation Market Share by Type
- Figure 27. Sales Market Share of Enzymatic Plastic Degradation by Type (2020-2025)
- Figure 28. Sales Market Share of Enzymatic Plastic Degradation by Type in 2025
- Figure 29. Market Share of Enzymatic Plastic Degradation by Type (2020-2025)
- Figure 30. Market Share of Enzymatic Plastic Degradation by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 32. Global Enzymatic Plastic Degradation Market Share by Application

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

Figure 34. Global Enzymatic Plastic Degradation Sales Market Share by Application in 2025

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

Figure 36. Global Enzymatic Plastic Degradation Market Share by Application in 2025

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

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

Figure 39. Global Enzymatic Plastic Degradation Market Size by Region (2020-2025)

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

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

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

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

Figure 44. North America Enzymatic Plastic Degradation Market Size by Country in 2024

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

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

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

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

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

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

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

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

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

Figure 54. Europe Enzymatic Plastic Degradation Market Size by Country in 2024

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

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

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

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

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

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

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

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

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

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

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

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

Figure 67. Asia Pacific Enzymatic Plastic Degradation Market Size by Region in 2024

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

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

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

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

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

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

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

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

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

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

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

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

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

Figure 81. South America Enzymatic Plastic Degradation Market Size by Country in 2024

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

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

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

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

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

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

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

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

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

Figure 91. Middle East and Africa Enzymatic Plastic Degradation Market Size by Region in 2024

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

Figure 93. Saudi Arabia Enzymatic Plastic Degradation Market Size and Growth Rate

(2020-2025) & (M USD)

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

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

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

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

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

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

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

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

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

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

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

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

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

Figure 107. Global Enzymatic Plastic Degradation Sales Forecast by Volume (2020-2035) & (K MT)

Figure 108. Global Enzymatic Plastic Degradation Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Enzymatic Plastic Degradation Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Enzymatic Plastic Degradation Market Share Forecast by Type (2026-2035)

Figure 111. Global Enzymatic Plastic Degradation Sales Forecast by Application (2026-2035)

Figure 112. Global Enzymatic Plastic Degradation Market Share Forecast by Application (2026-2035)

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