

Global Bio-based PDO Market Growth 2026-2032

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Abstracts

The global Bio-based PDO market size is predicted to grow from US\$ 263 million in 2025 to US\$ 571 million in 2032; it is expected to grow at a CAGR of 11.9% from 2026 to 2032.

Bio-based PDO (1,3-Propanediol) is a versatile chemical compound derived from renewable resources, primarily corn starch or sugar beet. It finds applications in various industries due to its eco-friendly and sustainable nature. Bio-based PDO serves as a precursor for a wide range of products, including polymers, fibers, and cosmetics, making it an essential component of the bio-based chemicals market.

Bio-based PDO (1,3-Propanediol) is a sustainable and renewable chemical compound that is derived from biomass sources such as corn starch or sugar beet. It has gained significant attention in recent years due to its eco-friendly properties and versatile applications in various industries. Bio-based PDO is used as a building block for bioplastics, textiles, cosmetics, and more. The global market for bio-based PDO is driven by the increasing demand for environmentally friendly and sustainable chemicals. The North American market for bio-based PDO is well-established and is driven by the region's strong focus on sustainability and green technologies. The Asia-Pacific region is witnessing rapid growth in the adoption of bio-based PDO, particularly in countries like China and India. Economic growth, coupled with increasing awareness about environmental issues, is driving the demand for sustainable chemicals. The region is also a significant player in the bioplastics market, which contributes to the demand for bio-based PDO. The United States and Canada have a significant presence in the market, with various industries adopting bio-based PDO for its eco-friendly attributes. European countries are at the forefront of adopting bio-based chemicals, including bio-based PDO, as part of their efforts to reduce carbon emissions and promote sustainable practices. Stringent regulations and favorable government policies contribute to the growth of the bio-based PDO market in this region. The global bio-based PDO market is

expected to witness substantial growth in the coming years. The increasing emphasis on reducing dependence on petroleum-based chemicals and addressing environmental concerns is driving industries to explore and adopt bio-based alternatives. Bio-based PDO's applications in various sectors, including packaging, textiles, and personal care products, are likely to drive its demand.

LP Information, Inc. (LPI) ' newest research report, the "Bio-based PDO Industry Forecast" looks at past sales and reviews total world Bio-based PDO sales in 2025, providing a comprehensive analysis by region and market sector of projected Bio-based PDO sales for 2026 through 2032. With Bio-based PDO sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Bio-based PDO industry.

This Insight Report provides a comprehensive analysis of the global Bio-based PDO landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Bio-based PDO portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Bio-based PDO market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Bio-based PDO and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Bio-based PDO.

This report presents a comprehensive overview, market shares, and growth opportunities of Bio-based PDO market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Technical Grade PDO

Pharmaceutical Grade PDO

Segmentation by Application:

Packaging

Textile

Medical

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

DuPont

METabolic Explorer

Glory Biomaterial

Guangdong Tsinghua Smart Biotech

Suzhen BIO-TECH

Huafon Group

Chenneng BIOTECHNOLOGY

Tianguan Group

Key Questions Addressed in this Report

What is the 10-year outlook for the global Bio-based PDO market?

What factors are driving Bio-based PDO market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Bio-based PDO market opportunities vary by end market size?

How does Bio-based PDO break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Bio-based PDO Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Bio-based PDO by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Bio-based PDO by Country/Region, 2021, 2025 & 2032
- 2.2 Bio-based PDO Segment by Type
 - 2.2.1 Technical Grade PDO
 - 2.2.2 Pharmaceutical Grade PDO
 - 2.2.3 Bio-based PDO Sales by Type
 - 2.2.3.1 Global Bio-based PDO Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global Bio-based PDO Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global Bio-based PDO Sale Price by Type (2021-2026)
- 2.3 Bio-based PDO Segment by Application
 - 2.3.1 Packaging
 - 2.3.2 Textile
 - 2.3.3 Medical
 - 2.3.4 Others
 - 2.3.5 Bio-based PDO Sales by Application
 - 2.3.5.1 Global Bio-based PDO Sale Market Share by Application (2021-2026)
 - 2.3.5.2 Global Bio-based PDO Revenue and Market Share by Application (2021-2026)
 - 2.3.5.3 Global Bio-based PDO Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

- 3.1 Global Bio-based PDO Breakdown Data by Company
 - 3.1.1 Global Bio-based PDO Annual Sales by Company (2021-2026)
 - 3.1.2 Global Bio-based PDO Sales Market Share by Company (2021-2026)
- 3.2 Global Bio-based PDO Annual Revenue by Company (2021-2026)
 - 3.2.1 Global Bio-based PDO Revenue by Company (2021-2026)
 - 3.2.2 Global Bio-based PDO Revenue Market Share by Company (2021-2026)
- 3.3 Global Bio-based PDO Sale Price by Company
- 3.4 Key Manufacturers Bio-based PDO Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Bio-based PDO Product Location Distribution
 - 3.4.2 Players Bio-based PDO Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR BIO-BASED PDO BY GEOGRAPHIC REGION

- 4.1 World Historic Bio-based PDO Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Bio-based PDO Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Bio-based PDO Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Bio-based PDO Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Bio-based PDO Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Bio-based PDO Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Bio-based PDO Sales Growth
- 4.4 APAC Bio-based PDO Sales Growth
- 4.5 Europe Bio-based PDO Sales Growth
- 4.6 Middle East & Africa Bio-based PDO Sales Growth

5 AMERICAS

- 5.1 Americas Bio-based PDO Sales by Country
 - 5.1.1 Americas Bio-based PDO Sales by Country (2021-2026)
 - 5.1.2 Americas Bio-based PDO Revenue by Country (2021-2026)
- 5.2 Americas Bio-based PDO Sales by Type (2021-2026)
- 5.3 Americas Bio-based PDO Sales by Application (2021-2026)
- 5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Bio-based PDO Sales by Region

6.1.1 APAC Bio-based PDO Sales by Region (2021-2026)

6.1.2 APAC Bio-based PDO Revenue by Region (2021-2026)

6.2 APAC Bio-based PDO Sales by Type (2021-2026)

6.3 APAC Bio-based PDO Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Bio-based PDO by Country

7.1.1 Europe Bio-based PDO Sales by Country (2021-2026)

7.1.2 Europe Bio-based PDO Revenue by Country (2021-2026)

7.2 Europe Bio-based PDO Sales by Type (2021-2026)

7.3 Europe Bio-based PDO Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Bio-based PDO by Country

8.1.1 Middle East & Africa Bio-based PDO Sales by Country (2021-2026)

8.1.2 Middle East & Africa Bio-based PDO Revenue by Country (2021-2026)

8.2 Middle East & Africa Bio-based PDO Sales by Type (2021-2026)

8.3 Middle East & Africa Bio-based PDO Sales by Application (2021-2026)

- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Bio-based PDO
- 10.3 Manufacturing Process Analysis of Bio-based PDO
- 10.4 Industry Chain Structure of Bio-based PDO

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Bio-based PDO Distributors
- 11.3 Bio-based PDO Customer

12 WORLD FORECAST REVIEW FOR BIO-BASED PDO BY GEOGRAPHIC REGION

- 12.1 Global Bio-based PDO Market Size Forecast by Region
 - 12.1.1 Global Bio-based PDO Forecast by Region (2027-2032)
 - 12.1.2 Global Bio-based PDO Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Bio-based PDO Forecast by Type (2027-2032)
- 12.7 Global Bio-based PDO Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 DuPont

13.1.1 DuPont Company Information

13.1.2 DuPont Bio-based PDO Product Portfolios and Specifications

13.1.3 DuPont Bio-based PDO Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 DuPont Main Business Overview

13.1.5 DuPont Latest Developments

13.2 METabolic Explorer

13.2.1 METabolic Explorer Company Information

13.2.2 METabolic Explorer Bio-based PDO Product Portfolios and Specifications

13.2.3 METabolic Explorer Bio-based PDO Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 METabolic Explorer Main Business Overview

13.2.5 METabolic Explorer Latest Developments

13.3 Glory Biomaterial

13.3.1 Glory Biomaterial Company Information

13.3.2 Glory Biomaterial Bio-based PDO Product Portfolios and Specifications

13.3.3 Glory Biomaterial Bio-based PDO Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Glory Biomaterial Main Business Overview

13.3.5 Glory Biomaterial Latest Developments

13.4 Guangdong Tsinghua Smart Biotech

13.4.1 Guangdong Tsinghua Smart Biotech Company Information

13.4.2 Guangdong Tsinghua Smart Biotech Bio-based PDO Product Portfolios and Specifications

13.4.3 Guangdong Tsinghua Smart Biotech Bio-based PDO Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Guangdong Tsinghua Smart Biotech Main Business Overview

13.4.5 Guangdong Tsinghua Smart Biotech Latest Developments

13.5 Suzhen BIO-TECH

13.5.1 Suzhen BIO-TECH Company Information

13.5.2 Suzhen BIO-TECH Bio-based PDO Product Portfolios and Specifications

13.5.3 Suzhen BIO-TECH Bio-based PDO Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Suzhen BIO-TECH Main Business Overview

13.5.5 Suzhen BIO-TECH Latest Developments

13.6 Huaфон Group

13.6.1 Huaфон Group Company Information

- 13.6.2 Huafon Group Bio-based PDO Product Portfolios and Specifications
- 13.6.3 Huafon Group Bio-based PDO Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.6.4 Huafon Group Main Business Overview
- 13.6.5 Huafon Group Latest Developments
- 13.7 Chenneng BIOTECHNOLOGY
- 13.7.1 Chenneng BIOTECHNOLOGY Company Information
- 13.7.2 Chenneng BIOTECHNOLOGY Bio-based PDO Product Portfolios and Specifications
- 13.7.3 Chenneng BIOTECHNOLOGY Bio-based PDO Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.7.4 Chenneng BIOTECHNOLOGY Main Business Overview
- 13.7.5 Chenneng BIOTECHNOLOGY Latest Developments
- 13.8 Tianguan Group
- 13.8.1 Tianguan Group Company Information
- 13.8.2 Tianguan Group Bio-based PDO Product Portfolios and Specifications
- 13.8.3 Tianguan Group Bio-based PDO Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.8.4 Tianguan Group Main Business Overview
- 13.8.5 Tianguan Group Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Bio-based PDO Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Bio-based PDO Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Technical Grade PDO

Table 4. Major Players of Pharmaceutical Grade PDO

Table 5. Global Bio-based PDO Sales by Type (2021-2026) & (Tons)

Table 6. Global Bio-based PDO Sales Market Share by Type (2021-2026)

Table 7. Global Bio-based PDO Revenue by Type (2021-2026) & (\$ million)

Table 8. Global Bio-based PDO Revenue Market Share by Type (2021-2026)

Table 9. Global Bio-based PDO Sale Price by Type (2021-2026) & (US\$/Ton)

Table 10. Global Bio-based PDO Sale by Application (2021-2026) & (Tons)

Table 11. Global Bio-based PDO Sale Market Share by Application (2021-2026)

Table 12. Global Bio-based PDO Revenue by Application (2021-2026) & (\$ million)

Table 13. Global Bio-based PDO Revenue Market Share by Application (2021-2026)

Table 14. Global Bio-based PDO Sale Price by Application (2021-2026) & (US\$/Ton)

Table 15. Global Bio-based PDO Sales by Company (2021-2026) & (Tons)

Table 16. Global Bio-based PDO Sales Market Share by Company (2021-2026)

Table 17. Global Bio-based PDO Revenue by Company (2021-2026) & (\$ millions)

Table 18. Global Bio-based PDO Revenue Market Share by Company (2021-2026)

Table 19. Global Bio-based PDO Sale Price by Company (2021-2026) & (US\$/Ton)

Table 20. Key Manufacturers Bio-based PDO Producing Area Distribution and Sales Area

Table 21. Players Bio-based PDO Products Offered

Table 22. Bio-based PDO Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 23. New Products and Potential Entrants

Table 24. Market M&A Activity & Strategy

Table 25. Global Bio-based PDO Sales by Geographic Region (2021-2026) & (Tons)

Table 26. Global Bio-based PDO Sales Market Share Geographic Region (2021-2026)

Table 27. Global Bio-based PDO Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 28. Global Bio-based PDO Revenue Market Share by Geographic Region (2021-2026)

Table 29. Global Bio-based PDO Sales by Country/Region (2021-2026) & (Tons)

Table 30. Global Bio-based PDO Sales Market Share by Country/Region (2021-2026)

Table 31. Global Bio-based PDO Revenue by Country/Region (2021-2026) & (\$ millions)

Table 32. Global Bio-based PDO Revenue Market Share by Country/Region (2021-2026)

Table 33. Americas Bio-based PDO Sales by Country (2021-2026) & (Tons)

Table 34. Americas Bio-based PDO Sales Market Share by Country (2021-2026)

Table 35. Americas Bio-based PDO Revenue by Country (2021-2026) & (\$ millions)

Table 36. Americas Bio-based PDO Sales by Type (2021-2026) & (Tons)

Table 37. Americas Bio-based PDO Sales by Application (2021-2026) & (Tons)

Table 38. APAC Bio-based PDO Sales by Region (2021-2026) & (Tons)

Table 39. APAC Bio-based PDO Sales Market Share by Region (2021-2026)

Table 40. APAC Bio-based PDO Revenue by Region (2021-2026) & (\$ millions)

Table 41. APAC Bio-based PDO Sales by Type (2021-2026) & (Tons)

Table 42. APAC Bio-based PDO Sales by Application (2021-2026) & (Tons)

Table 43. Europe Bio-based PDO Sales by Country (2021-2026) & (Tons)

Table 44. Europe Bio-based PDO Revenue by Country (2021-2026) & (\$ millions)

Table 45. Europe Bio-based PDO Sales by Type (2021-2026) & (Tons)

Table 46. Europe Bio-based PDO Sales by Application (2021-2026) & (Tons)

Table 47. Middle East & Africa Bio-based PDO Sales by Country (2021-2026) & (Tons)

Table 48. Middle East & Africa Bio-based PDO Revenue Market Share by Country (2021-2026)

Table 49. Middle East & Africa Bio-based PDO Sales by Type (2021-2026) & (Tons)

Table 50. Middle East & Africa Bio-based PDO Sales by Application (2021-2026) & (Tons)

Table 51. Key Market Drivers & Growth Opportunities of Bio-based PDO

Table 52. Key Market Challenges & Risks of Bio-based PDO

Table 53. Key Industry Trends of Bio-based PDO

Table 54. Bio-based PDO Raw Material

Table 55. Key Suppliers of Raw Materials

Table 56. Bio-based PDO Distributors List

Table 57. Bio-based PDO Customer List

Table 58. Global Bio-based PDO Sales Forecast by Region (2027-2032) & (Tons)

Table 59. Global Bio-based PDO Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 60. Americas Bio-based PDO Sales Forecast by Country (2027-2032) & (Tons)

Table 61. Americas Bio-based PDO Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 62. APAC Bio-based PDO Sales Forecast by Region (2027-2032) & (Tons)

Table 63. APAC Bio-based PDO Annual Revenue Forecast by Region (2027-2032) & (\$

millions)

Table 64. Europe Bio-based PDO Sales Forecast by Country (2027-2032) & (Tons)

Table 65. Europe Bio-based PDO Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 66. Middle East & Africa Bio-based PDO Sales Forecast by Country (2027-2032) & (Tons)

Table 67. Middle East & Africa Bio-based PDO Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 68. Global Bio-based PDO Sales Forecast by Type (2027-2032) & (Tons)

Table 69. Global Bio-based PDO Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 70. Global Bio-based PDO Sales Forecast by Application (2027-2032) & (Tons)

Table 71. Global Bio-based PDO Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 72. DuPont Basic Information, Bio-based PDO Manufacturing Base, Sales Area and Its Competitors

Table 73. DuPont Bio-based PDO Product Portfolios and Specifications

Table 74. DuPont Bio-based PDO Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 75. DuPont Main Business

Table 76. DuPont Latest Developments

Table 77. METabolic Explorer Basic Information, Bio-based PDO Manufacturing Base, Sales Area and Its Competitors

Table 78. METabolic Explorer Bio-based PDO Product Portfolios and Specifications

Table 79. METabolic Explorer Bio-based PDO Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 80. METabolic Explorer Main Business

Table 81. METabolic Explorer Latest Developments

Table 82. Glory Biomaterial Basic Information, Bio-based PDO Manufacturing Base, Sales Area and Its Competitors

Table 83. Glory Biomaterial Bio-based PDO Product Portfolios and Specifications

Table 84. Glory Biomaterial Bio-based PDO Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 85. Glory Biomaterial Main Business

Table 86. Glory Biomaterial Latest Developments

Table 87. Guangdong Tsinghua Smart Biotech Basic Information, Bio-based PDO Manufacturing Base, Sales Area and Its Competitors

Table 88. Guangdong Tsinghua Smart Biotech Bio-based PDO Product Portfolios and Specifications

Table 89. Guangdong Tsinghua Smart Biotech Bio-based PDO Sales (Tons), Revenue

(\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 90. Guangdong Tsinghua Smart Biotech Main Business

Table 91. Guangdong Tsinghua Smart Biotech Latest Developments

Table 92. Suzhen BIO-TECH Basic Information, Bio-based PDO Manufacturing Base, Sales Area and Its Competitors

Table 93. Suzhen BIO-TECH Bio-based PDO Product Portfolios and Specifications

Table 94. Suzhen BIO-TECH Bio-based PDO Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 95. Suzhen BIO-TECH Main Business

Table 96. Suzhen BIO-TECH Latest Developments

Table 97. Huaфон Group Basic Information, Bio-based PDO Manufacturing Base, Sales Area and Its Competitors

Table 98. Huaфон Group Bio-based PDO Product Portfolios and Specifications

Table 99. Huaфон Group Bio-based PDO Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 100. Huaфон Group Main Business

Table 101. Huaфон Group Latest Developments

Table 102. Chenneng BIOTECHNOLOGY Basic Information, Bio-based PDO Manufacturing Base, Sales Area and Its Competitors

Table 103. Chenneng BIOTECHNOLOGY Bio-based PDO Product Portfolios and Specifications

Table 104. Chenneng BIOTECHNOLOGY Bio-based PDO Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 105. Chenneng BIOTECHNOLOGY Main Business

Table 106. Chenneng BIOTECHNOLOGY Latest Developments

Table 107. Tianguan Group Basic Information, Bio-based PDO Manufacturing Base, Sales Area and Its Competitors

Table 108. Tianguan Group Bio-based PDO Product Portfolios and Specifications

Table 109. Tianguan Group Bio-based PDO Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 110. Tianguan Group Main Business

Table 111. Tianguan Group Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Bio-based PDO
- Figure 2. Bio-based PDO Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Bio-based PDO Sales Growth Rate 2021-2032 (Tons)
- Figure 7. Global Bio-based PDO Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Bio-based PDO Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Bio-based PDO Sales Market Share by Country/Region (2025)
- Figure 10. Bio-based PDO Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Technical Grade PDO
- Figure 12. Product Picture of Pharmaceutical Grade PDO
- Figure 13. Global Bio-based PDO Sales Market Share by Type in 2026
- Figure 14. Global Bio-based PDO Revenue Market Share by Type (2021-2026)
- Figure 15. Bio-based PDO Consumed in Packaging
- Figure 16. Global Bio-based PDO Market: Packaging (2021-2026) & (Tons)
- Figure 17. Bio-based PDO Consumed in Textile
- Figure 18. Global Bio-based PDO Market: Textile (2021-2026) & (Tons)
- Figure 19. Bio-based PDO Consumed in Medical
- Figure 20. Global Bio-based PDO Market: Medical (2021-2026) & (Tons)
- Figure 21. Bio-based PDO Consumed in Others
- Figure 22. Global Bio-based PDO Market: Others (2021-2026) & (Tons)
- Figure 23. Global Bio-based PDO Sale Market Share by Application (2025)
- Figure 24. Global Bio-based PDO Revenue Market Share by Application in 2026
- Figure 25. Bio-based PDO Sales by Company in 2026 (Tons)
- Figure 26. Global Bio-based PDO Sales Market Share by Company in 2026
- Figure 27. Bio-based PDO Revenue by Company in 2026 (\$ millions)
- Figure 28. Global Bio-based PDO Revenue Market Share by Company in 2026
- Figure 29. Global Bio-based PDO Sales Market Share by Geographic Region (2021-2026)
- Figure 30. Global Bio-based PDO Revenue Market Share by Geographic Region in 2026
- Figure 31. Americas Bio-based PDO Sales 2021-2026 (Tons)
- Figure 32. Americas Bio-based PDO Revenue 2021-2026 (\$ millions)

- Figure 33. APAC Bio-based PDO Sales 2021-2026 (Tons)
- Figure 34. APAC Bio-based PDO Revenue 2021-2026 (\$ millions)
- Figure 35. Europe Bio-based PDO Sales 2021-2026 (Tons)
- Figure 36. Europe Bio-based PDO Revenue 2021-2026 (\$ millions)
- Figure 37. Middle East & Africa Bio-based PDO Sales 2021-2026 (Tons)
- Figure 38. Middle East & Africa Bio-based PDO Revenue 2021-2026 (\$ millions)
- Figure 39. Americas Bio-based PDO Sales Market Share by Country in 2026
- Figure 40. Americas Bio-based PDO Revenue Market Share by Country (2021-2026)
- Figure 41. Americas Bio-based PDO Sales Market Share by Type (2021-2026)
- Figure 42. Americas Bio-based PDO Sales Market Share by Application (2021-2026)
- Figure 43. United States Bio-based PDO Revenue Growth 2021-2026 (\$ millions)
- Figure 44. Canada Bio-based PDO Revenue Growth 2021-2026 (\$ millions)
- Figure 45. Mexico Bio-based PDO Revenue Growth 2021-2026 (\$ millions)
- Figure 46. Brazil Bio-based PDO Revenue Growth 2021-2026 (\$ millions)
- Figure 47. APAC Bio-based PDO Sales Market Share by Region in 2026
- Figure 48. APAC Bio-based PDO Revenue Market Share by Region (2021-2026)
- Figure 49. APAC Bio-based PDO Sales Market Share by Type (2021-2026)
- Figure 50. APAC Bio-based PDO Sales Market Share by Application (2021-2026)
- Figure 51. China Bio-based PDO Revenue Growth 2021-2026 (\$ millions)
- Figure 52. Japan Bio-based PDO Revenue Growth 2021-2026 (\$ millions)
- Figure 53. South Korea Bio-based PDO Revenue Growth 2021-2026 (\$ millions)
- Figure 54. Southeast Asia Bio-based PDO Revenue Growth 2021-2026 (\$ millions)
- Figure 55. India Bio-based PDO Revenue Growth 2021-2026 (\$ millions)
- Figure 56. Australia Bio-based PDO Revenue Growth 2021-2026 (\$ millions)
- Figure 57. China Taiwan Bio-based PDO Revenue Growth 2021-2026 (\$ millions)
- Figure 58. Europe Bio-based PDO Sales Market Share by Country in 2026
- Figure 59. Europe Bio-based PDO Revenue Market Share by Country (2021-2026)
- Figure 60. Europe Bio-based PDO Sales Market Share by Type (2021-2026)
- Figure 61. Europe Bio-based PDO Sales Market Share by Application (2021-2026)
- Figure 62. Germany Bio-based PDO Revenue Growth 2021-2026 (\$ millions)
- Figure 63. France Bio-based PDO Revenue Growth 2021-2026 (\$ millions)
- Figure 64. UK Bio-based PDO Revenue Growth 2021-2026 (\$ millions)
- Figure 65. Italy Bio-based PDO Revenue Growth 2021-2026 (\$ millions)
- Figure 66. Russia Bio-based PDO Revenue Growth 2021-2026 (\$ millions)
- Figure 67. Middle East & Africa Bio-based PDO Sales Market Share by Country (2021-2026)
- Figure 68. Middle East & Africa Bio-based PDO Sales Market Share by Type (2021-2026)
- Figure 69. Middle East & Africa Bio-based PDO Sales Market Share by Application

(2021-2026)

Figure 70. Egypt Bio-based PDO Revenue Growth 2021-2026 (\$ millions)

Figure 71. South Africa Bio-based PDO Revenue Growth 2021-2026 (\$ millions)

Figure 72. Israel Bio-based PDO Revenue Growth 2021-2026 (\$ millions)

Figure 73. Turkey Bio-based PDO Revenue Growth 2021-2026 (\$ millions)

Figure 74. GCC Countries Bio-based PDO Revenue Growth 2021-2026 (\$ millions)

Figure 75. Manufacturing Cost Structure Analysis of Bio-based PDO in 2026

Figure 76. Manufacturing Process Analysis of Bio-based PDO

Figure 77. Industry Chain Structure of Bio-based PDO

Figure 78. Channels of Distribution

Figure 79. Global Bio-based PDO Sales Market Forecast by Region (2027-2032)

Figure 80. Global Bio-based PDO Revenue Market Share Forecast by Region
(2027-2032)

Figure 81. Global Bio-based PDO Sales Market Share Forecast by Type (2027-2032)

Figure 82. Global Bio-based PDO Revenue Market Share Forecast by Type
(2027-2032)

Figure 83. Global Bio-based PDO Sales Market Share Forecast by Application
(2027-2032)

Figure 84. Global Bio-based PDO Revenue Market Share Forecast by Application
(2027-2032)

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