

Global Biodegradable Medical Polymer Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Biodegradable Medical Polymer market size is expected to reach \$ 1393 million by 2032, rising at a market growth of 4.4% CAGR during the forecast period (2026-2032).

Biodegradable Medical Polymer refers to a class of biocompatible polymer materials engineered to gradually decompose through biological, hydrolytic, or enzymatic processes within physiological environments, enabling temporary medical functionality and eventual safe elimination or absorption by the body, widely used in implants, sutures, drug delivery systems, wound care products, tissue engineering scaffolds, and regenerative medicine applications to reduce long-term foreign body presence and minimize secondary surgical procedures.

The Biodegradable Medical Polymer industry chain includes upstream suppliers of bio-based monomers, petrochemical intermediates, catalysts, specialty additives, medical-grade chemicals, and precision polymerization equipment, while midstream manufacturers perform polymer synthesis, purification, compounding, extrusion, molding, sterilization, surface modification, and regulatory validation to produce biodegradable medical-grade materials and components, and downstream sectors include medical device manufacturers, pharmaceutical companies, hospitals, biotechnology firms, tissue engineering enterprises, orthopedic implant producers, and regenerative medicine providers that utilize these polymers in implants, sutures, drug delivery systems, and biodegradable medical devices, with increasing market demand supported by aging populations, minimally invasive treatment adoption, and continuous biomaterials innovation across global healthcare industries.

Current projects under construction and planning within the Biodegradable Medical

Polymer market include advanced biomaterials manufacturing facilities, biodegradable orthopedic implant production plants, regenerative medicine material development centers, controlled drug delivery polymer expansion projects, biodegradable cardiovascular device commercialization programs, tissue engineering scaffold pilot facilities, and 3D-printed medical polymer research initiatives across North America, Europe, China, Japan, South Korea, and Southeast Asia, where increasing demand for minimally invasive and sustainable medical technologies is accelerating investment activity, while manufacturers and biotechnology companies are simultaneously expanding GMP cleanroom infrastructure, polymer synthesis capabilities, clinical research collaborations, biomaterials testing laboratories, and strategic partnerships with hospitals, pharmaceutical companies, universities, and medical device manufacturers to improve innovation capacity and regulatory competitiveness.

2025 Global Market Average Gross Profit Margin: 40%.

The Biodegradable Medical Polymer market has experienced strong growth due to increasing demand for advanced biomaterials, minimally invasive medical procedures, and environmentally sustainable healthcare solutions. The market is shifting from conventional permanent implant materials toward biodegradable alternatives capable of safely degrading after completing therapeutic functions, reducing the need for secondary surgeries and improving patient recovery outcomes. Rising healthcare expenditures, aging populations, increasing orthopedic and cardiovascular disease prevalence, and technological advances in regenerative medicine continue to support long-term market expansion. North America remains a leading market due to its advanced medical device industry, strong biotechnology ecosystem, and extensive clinical research infrastructure. Europe maintains significant market share because of strict medical quality standards, strong regulatory frameworks, and increasing focus on sustainable healthcare technologies. Asia-Pacific, particularly China, Japan, and South Korea, is emerging as a major growth region supported by expanding healthcare systems, increasing domestic medical device production, and government support for biotechnology innovation.

Market development opportunities are closely associated with the rapid expansion of regenerative medicine, tissue engineering, biodegradable implants, and controlled drug delivery technologies. Increasing demand for biodegradable orthopedic fixation devices, cardiovascular stents, wound closure materials, and tissue scaffolds continues to create substantial growth potential. Technological advances in nanotechnology, 3D bioprinting, bioactive composites, and smart drug delivery systems are further expanding the

application scope of biodegradable medical polymers. Pharmaceutical companies and biotechnology firms are increasingly investing in polymer-based therapeutics capable of improving drug efficacy and reducing systemic side effects. However, the market also faces several risks, including high research and development costs, lengthy regulatory approval cycles, strict biocompatibility requirements, and technical challenges related to degradation consistency and long-term mechanical stability. Material sterilization sensitivity, variability in physiological degradation behavior, and potential inflammatory responses may affect clinical adoption and commercialization timelines. Intellectual property barriers and complex regulatory compliance requirements may also limit participation from smaller manufacturers.

Competitive characteristics within the Biodegradable Medical Polymer market are defined by technological innovation, regulatory expertise, biomaterial performance, and strategic collaboration capabilities. Large multinational biomaterials companies and medical device manufacturers maintain advantages in research investment, global regulatory approvals, clinical validation, and large-scale production infrastructure. Emerging biotechnology firms and specialized biomaterial developers compete through proprietary polymer formulations, customized degradation technologies, and niche medical applications. Strategic partnerships between polymer producers, pharmaceutical companies, medical device developers, research institutes, and healthcare providers are becoming increasingly important for accelerating product development and commercialization. The market is also witnessing rising investment in AI-assisted biomaterial design, patient-specific implants, and advanced tissue regeneration platforms.

This report studies the global Biodegradable Medical Polymer demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Biodegradable Medical Polymer, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Biodegradable Medical Polymer that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Biodegradable Medical Polymer total market, 2021-2032, (USD Million)
Global Biodegradable Medical Polymer total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Biodegradable Medical Polymer total market, key domestic companies, and share, (USD Million)

Global Biodegradable Medical Polymer revenue by player, revenue and market share 2021-2026, (USD Million)

Global Biodegradable Medical Polymer total market by Type, CAGR, 2021-2032, (USD Million)

Global Biodegradable Medical Polymer total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Biodegradable Medical Polymer market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Evonik, Corbion, DSM-Firmenich, Poly-Med, Ashland, For?creu, Zeus Company LLC, REVA, DuPont, BMG Inc, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Biodegradable Medical Polymer market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Biodegradable Medical Polymer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Biodegradable Medical Polymer Market, Segmentation by Type:

Polylactic Acid (PLA)

Polyglycolic Acid (PGA)

Polycaprolactone (PCL)

Poly(lactic-co-glycolic acid) (PLGA)

Others

Global Biodegradable Medical Polymer Market, Segmentation by Manufacturing Technology Type:

Injection Molded

Extruded

Others

Global Biodegradable Medical Polymer Market, Segmentation by Source Material Type:

Synthetic Bioresorbable

Natural Bioresorbable

Bio-Based Bioresorbable

Hybrid Composite Bioresorbable

Others

Global Biodegradable Medical Polymer Market, Segmentation by Application:

Orthopedic Implants

Cardiovascular Stents

Drug Delivery Systems

Surgical Sutures

Others

Companies Profiled:

Evonik

Corbion

DSM-Firmenich

Poly-Med

Ashland

For?creu

Zeus Company LLC

REVA

DuPont

BMG Inc

Geon Performance Solutions LLC

Bezwada Biomedical LLC

Mitsui Chemicals

Key Questions Answered

1. How big is the global Biodegradable Medical Polymer market?
2. What is the demand of the global Biodegradable Medical Polymer market?
3. What is the year over year growth of the global Biodegradable Medical Polymer market?
4. What is the total value of the global Biodegradable Medical Polymer market?
5. Who are the Major Players in the global Biodegradable Medical Polymer market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

1.1 Biodegradable Medical Polymer Introduction

1.2 World Biodegradable Medical Polymer Market Size & Forecast (2021 & 2025 & 2032)

1.3 World Biodegradable Medical Polymer Total Market by Region (by Headquarter Location)

1.3.1 World Biodegradable Medical Polymer Market Size by Region (2021-2032), (by Headquarter Location)

1.3.2 United States Based Company Biodegradable Medical Polymer Revenue (2021-2032)

1.3.3 China Based Company Biodegradable Medical Polymer Revenue (2021-2032)

1.3.4 Europe Based Company Biodegradable Medical Polymer Revenue (2021-2032)

1.3.5 Japan Based Company Biodegradable Medical Polymer Revenue (2021-2032)

1.3.6 South Korea Based Company Biodegradable Medical Polymer Revenue (2021-2032)

1.3.7 ASEAN Based Company Biodegradable Medical Polymer Revenue (2021-2032)

1.3.8 India Based Company Biodegradable Medical Polymer Revenue (2021-2032)

1.4 Market Drivers, Restraints and Trends

1.4.1 Biodegradable Medical Polymer Market Drivers

1.4.2 Factors Affecting Demand

1.4.3 Major Market Trends

2 DEMAND SUMMARY

2.1 World Biodegradable Medical Polymer Consumption Value (2021-2032)

2.2 World Biodegradable Medical Polymer Consumption Value by Region

2.2.1 World Biodegradable Medical Polymer Consumption Value by Region (2021-2026)

2.2.2 World Biodegradable Medical Polymer Consumption Value Forecast by Region (2027-2032)

2.3 United States Biodegradable Medical Polymer Consumption Value (2021-2032)

2.4 China Biodegradable Medical Polymer Consumption Value (2021-2032)

2.5 Europe Biodegradable Medical Polymer Consumption Value (2021-2032)

2.6 Japan Biodegradable Medical Polymer Consumption Value (2021-2032)

2.7 South Korea Biodegradable Medical Polymer Consumption Value (2021-2032)

2.8 ASEAN Biodegradable Medical Polymer Consumption Value (2021-2032)

2.9 India Biodegradable Medical Polymer Consumption Value (2021-2032)

3 WORLD BIODEGRADABLE MEDICAL POLYMER COMPANIES COMPETITIVE ANALYSIS

3.1 World Biodegradable Medical Polymer Revenue by Player (2021-2026)

3.2 Industry Rank and Concentration Rate (CR)

3.2.1 Global Biodegradable Medical Polymer Industry Rank of Major Players

3.2.2 Global Concentration Ratios (CR4) for Biodegradable Medical Polymer in 2025

3.2.3 Global Concentration Ratios (CR8) for Biodegradable Medical Polymer in 2025

3.3 Biodegradable Medical Polymer Company Evaluation Quadrant

3.4 Biodegradable Medical Polymer Market: Overall Company Footprint Analysis

3.4.1 Biodegradable Medical Polymer Market: Region Footprint

3.4.2 Biodegradable Medical Polymer Market: Company Product Type Footprint

3.4.3 Biodegradable Medical Polymer Market: Company Product Application Footprint

3.5 Competitive Environment

3.5.1 Historical Structure of the Industry

3.5.2 Barriers of Market Entry

3.5.3 Factors of Competition

3.6 Mergers & Acquisitions Activity

4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)

4.1 United States VS China: Biodegradable Medical Polymer Revenue Comparison (by Headquarter Location)

4.1.1 United States VS China: Biodegradable Medical Polymer Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)

4.1.2 United States VS China: Biodegradable Medical Polymer Revenue Market Share Comparison (2021 & 2025 & 2032)

4.2 United States Based Companies VS China Based Companies: Biodegradable Medical Polymer Consumption Value Comparison

4.2.1 United States VS China: Biodegradable Medical Polymer Consumption Value Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Biodegradable Medical Polymer Consumption Value Market Share Comparison (2021 & 2025 & 2032)

4.3 United States Based Biodegradable Medical Polymer Companies and Market Share, 2021-2026

4.3.1 United States Based Biodegradable Medical Polymer Companies, Headquarters

(States, Country)

4.3.2 United States Based Companies Biodegradable Medical Polymer Revenue, (2021-2026)

4.4 China Based Companies Biodegradable Medical Polymer Revenue and Market Share, 2021-2026

4.4.1 China Based Biodegradable Medical Polymer Companies, Company Headquarters (Province, Country)

4.4.2 China Based Companies Biodegradable Medical Polymer Revenue, (2021-2026)

4.5 Rest of World Based Biodegradable Medical Polymer Companies and Market Share, 2021-2026

4.5.1 Rest of World Based Biodegradable Medical Polymer Companies, Headquarters (Province, Country)

4.5.2 Rest of World Based Companies Biodegradable Medical Polymer Revenue (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Biodegradable Medical Polymer Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Polylactic Acid (PLA)

5.2.2 Polyglycolic Acid (PGA)

5.2.3 Polycaprolactone (PCL)

5.2.4 Polylactic-co-Glycolic Acid (PLGA)

5.2.5 Others

5.3 Market Segment by Type

5.3.1 World Biodegradable Medical Polymer Market Size by Type (2021-2026)

5.3.2 World Biodegradable Medical Polymer Market Size by Type (2027-2032)

5.3.3 World Biodegradable Medical Polymer Market Size Market Share by Type (2027-2032)

6 MARKET ANALYSIS BY MANUFACTURING TECHNOLOGY TYPE

6.1 World Biodegradable Medical Polymer Market Size Overview by Manufacturing Technology Type: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Manufacturing Technology Type

6.2.1 Injection Molded

6.2.2 Extruded

6.2.3 Others

6.3 Market Segment by Manufacturing Technology Type

6.3.1 World Biodegradable Medical Polymer Market Size by Manufacturing Technology Type (2021-2026)

6.3.2 World Biodegradable Medical Polymer Market Size by Manufacturing Technology Type (2027-2032)

6.3.3 World Biodegradable Medical Polymer Market Size Market Share by Manufacturing Technology Type (2027-2032)

7 MARKET ANALYSIS BY SOURCE MATERIAL TYPE

7.1 World Biodegradable Medical Polymer Market Size Overview by Source Material Type: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Source Material Type

7.2.1 Synthetic Bioresorbable

7.2.2 Natural Bioresorbable

7.2.3 Bio-Based Bioresorbable

7.2.4 Hybrid Composite Bioresorbable

7.2.5 Others

7.3 Market Segment by Source Material Type

7.3.1 World Biodegradable Medical Polymer Market Size by Source Material Type (2021-2026)

7.3.2 World Biodegradable Medical Polymer Market Size by Source Material Type (2027-2032)

7.3.3 World Biodegradable Medical Polymer Market Size Market Share by Source Material Type (2027-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Biodegradable Medical Polymer Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Orthopedic Implants

8.2.2 Cardiovascular Stents

8.2.3 Drug Delivery Systems

8.2.4 Surgical Sutures

8.2.5 Others

8.3 Market Segment by Application

8.3.1 World Biodegradable Medical Polymer Market Size by Application (2021-2026)

8.3.2 World Biodegradable Medical Polymer Market Size by Application (2027-2032)

8.3.3 World Biodegradable Medical Polymer Market Size Market Share by Application (2021-2032)

9 COMPANY PROFILES

9.1 Evonik

9.1.1 Evonik Details

9.1.2 Evonik Major Business

9.1.3 Evonik Biodegradable Medical Polymer Product and Services

9.1.4 Evonik Biodegradable Medical Polymer Revenue, Gross Margin and Market Share (2021-2026)

9.1.5 Evonik Recent Developments/Updates

9.1.6 Evonik Competitive Strengths & Weaknesses

9.2 Corbion

9.2.1 Corbion Details

9.2.2 Corbion Major Business

9.2.3 Corbion Biodegradable Medical Polymer Product and Services

9.2.4 Corbion Biodegradable Medical Polymer Revenue, Gross Margin and Market Share (2021-2026)

9.2.5 Corbion Recent Developments/Updates

9.2.6 Corbion Competitive Strengths & Weaknesses

9.3 DSM-Firmenich

9.3.1 DSM-Firmenich Details

9.3.2 DSM-Firmenich Major Business

9.3.3 DSM-Firmenich Biodegradable Medical Polymer Product and Services

9.3.4 DSM-Firmenich Biodegradable Medical Polymer Revenue, Gross Margin and Market Share (2021-2026)

9.3.5 DSM-Firmenich Recent Developments/Updates

9.3.6 DSM-Firmenich Competitive Strengths & Weaknesses

9.4 Poly-Med

9.4.1 Poly-Med Details

9.4.2 Poly-Med Major Business

9.4.3 Poly-Med Biodegradable Medical Polymer Product and Services

9.4.4 Poly-Med Biodegradable Medical Polymer Revenue, Gross Margin and Market Share (2021-2026)

9.4.5 Poly-Med Recent Developments/Updates

9.4.6 Poly-Med Competitive Strengths & Weaknesses

9.5 Ashland

9.5.1 Ashland Details

- 9.5.2 Ashland Major Business
- 9.5.3 Ashland Biodegradable Medical Polymer Product and Services
- 9.5.4 Ashland Biodegradable Medical Polymer Revenue, Gross Margin and Market Share (2021-2026)
- 9.5.5 Ashland Recent Developments/Updates
- 9.5.6 Ashland Competitive Strengths & Weaknesses
- 9.6 For?creu
 - 9.6.1 For?creu Details
 - 9.6.2 For?creu Major Business
 - 9.6.3 For?creu Biodegradable Medical Polymer Product and Services
 - 9.6.4 For?creu Biodegradable Medical Polymer Revenue, Gross Margin and Market Share (2021-2026)
 - 9.6.5 For?creu Recent Developments/Updates
 - 9.6.6 For?creu Competitive Strengths & Weaknesses
- 9.7 Zeus Company LLC
 - 9.7.1 Zeus Company LLC Details
 - 9.7.2 Zeus Company LLC Major Business
 - 9.7.3 Zeus Company LLC Biodegradable Medical Polymer Product and Services
 - 9.7.4 Zeus Company LLC Biodegradable Medical Polymer Revenue, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Zeus Company LLC Recent Developments/Updates
 - 9.7.6 Zeus Company LLC Competitive Strengths & Weaknesses
- 9.8 REVA
 - 9.8.1 REVA Details
 - 9.8.2 REVA Major Business
 - 9.8.3 REVA Biodegradable Medical Polymer Product and Services
 - 9.8.4 REVA Biodegradable Medical Polymer Revenue, Gross Margin and Market Share (2021-2026)
 - 9.8.5 REVA Recent Developments/Updates
 - 9.8.6 REVA Competitive Strengths & Weaknesses
- 9.9 DuPont
 - 9.9.1 DuPont Details
 - 9.9.2 DuPont Major Business
 - 9.9.3 DuPont Biodegradable Medical Polymer Product and Services
 - 9.9.4 DuPont Biodegradable Medical Polymer Revenue, Gross Margin and Market Share (2021-2026)
 - 9.9.5 DuPont Recent Developments/Updates
 - 9.9.6 DuPont Competitive Strengths & Weaknesses
- 9.10 BMG Inc

- 9.10.1 BMG Inc Details
- 9.10.2 BMG Inc Major Business
- 9.10.3 BMG Inc Biodegradable Medical Polymer Product and Services
- 9.10.4 BMG Inc Biodegradable Medical Polymer Revenue, Gross Margin and Market Share (2021-2026)
- 9.10.5 BMG Inc Recent Developments/Updates
- 9.10.6 BMG Inc Competitive Strengths & Weaknesses
- 9.11 Geon Performance Solutions LLC
 - 9.11.1 Geon Performance Solutions LLC Details
 - 9.11.2 Geon Performance Solutions LLC Major Business
 - 9.11.3 Geon Performance Solutions LLC Biodegradable Medical Polymer Product and Services
 - 9.11.4 Geon Performance Solutions LLC Biodegradable Medical Polymer Revenue, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Geon Performance Solutions LLC Recent Developments/Updates
 - 9.11.6 Geon Performance Solutions LLC Competitive Strengths & Weaknesses
- 9.12 Bezwada Biomedical LLC
 - 9.12.1 Bezwada Biomedical LLC Details
 - 9.12.2 Bezwada Biomedical LLC Major Business
 - 9.12.3 Bezwada Biomedical LLC Biodegradable Medical Polymer Product and Services
 - 9.12.4 Bezwada Biomedical LLC Biodegradable Medical Polymer Revenue, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Bezwada Biomedical LLC Recent Developments/Updates
 - 9.12.6 Bezwada Biomedical LLC Competitive Strengths & Weaknesses
- 9.13 Mitsui Chemicals
 - 9.13.1 Mitsui Chemicals Details
 - 9.13.2 Mitsui Chemicals Major Business
 - 9.13.3 Mitsui Chemicals Biodegradable Medical Polymer Product and Services
 - 9.13.4 Mitsui Chemicals Biodegradable Medical Polymer Revenue, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Mitsui Chemicals Recent Developments/Updates
 - 9.13.6 Mitsui Chemicals Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Biodegradable Medical Polymer Industry Chain
- 10.2 Biodegradable Medical Polymer Upstream Analysis
- 10.3 Biodegradable Medical Polymer Midstream Analysis

10.4 Biodegradable Medical Polymer Downstream Analysis

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Biodegradable Medical Polymer Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Table 2. World Biodegradable Medical Polymer Revenue by Region (2021-2026) & (USD Million), (by Headquarter Location)

Table 3. World Biodegradable Medical Polymer Revenue by Region (2027-2032) & (USD Million), (by Headquarter Location)

Table 4. World Biodegradable Medical Polymer Revenue Market Share by Region (2021-2026), (by Headquarter Location)

Table 5. World Biodegradable Medical Polymer Revenue Market Share by Region (2027-2032), (by Headquarter Location)

Table 6. Major Market Trends

Table 7. World Biodegradable Medical Polymer Consumption Value Growth Rate Forecast by Region (2021 & 2025 & 2032) & (USD Million)

Table 8. World Biodegradable Medical Polymer Consumption Value by Region (2021-2026) & (USD Million)

Table 9. World Biodegradable Medical Polymer Consumption Value Forecast by Region (2027-2032) & (USD Million)

Table 10. World Biodegradable Medical Polymer Revenue by Player (2021-2026) & (USD Million)

Table 11. Revenue Market Share of Key Biodegradable Medical Polymer Players in 2025

Table 12. World Biodegradable Medical Polymer Industry Rank of Major Player, Based on Revenue in 2025

Table 13. Global Biodegradable Medical Polymer Company Evaluation Quadrant

Table 14. Head Office of Key Biodegradable Medical Polymer Players

Table 15. Biodegradable Medical Polymer Market: Company Product Type Footprint

Table 16. Biodegradable Medical Polymer Market: Company Product Application Footprint

Table 17. Biodegradable Medical Polymer Mergers & Acquisitions Activity

Table 18. United States VS China Biodegradable Medical Polymer Revenue Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 19. United States VS China Biodegradable Medical Polymer Consumption Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 20. United States Based Biodegradable Medical Polymer Companies, Headquarters (States, Country)

Table 21. United States Based Companies Biodegradable Medical Polymer Revenue, (2021-2026) & (USD Million)

Table 22. United States Based Companies Biodegradable Medical Polymer Revenue Market Share (2021-2026)

Table 23. China Based Biodegradable Medical Polymer Companies, Headquarters (Province, Country)

Table 24. China Based Companies Biodegradable Medical Polymer Revenue, (2021-2026) & (USD Million)

Table 25. China Based Companies Biodegradable Medical Polymer Revenue Market Share (2021-2026)

Table 26. Rest of World Based Biodegradable Medical Polymer Companies, Headquarters (Province, Country)

Table 27. Rest of World Based Companies Biodegradable Medical Polymer Revenue (2021-2026) & (USD Million)

Table 28. Rest of World Based Companies Biodegradable Medical Polymer Revenue Market Share (2021-2026)

Table 29. World Biodegradable Medical Polymer Market Size by Type, (USD Million), 2021 & 2025 & 2032

Table 30. World Biodegradable Medical Polymer Market Size Value by Type (2021-2026) & (USD Million)

Table 31. World Biodegradable Medical Polymer Market Size by Type (2027-2032) & (USD Million)

Table 32. World Biodegradable Medical Polymer Market Size by Manufacturing Technology Type, (USD Million), 2021 & 2025 & 2032

Table 33. World Biodegradable Medical Polymer Market Size Value by Manufacturing Technology Type (2021-2026) & (USD Million)

Table 34. World Biodegradable Medical Polymer Market Size by Manufacturing Technology Type (2027-2032) & (USD Million)

Table 35. World Biodegradable Medical Polymer Market Size by Source Material Type, (USD Million), 2021 & 2025 & 2032

Table 36. World Biodegradable Medical Polymer Market Size Value by Source Material Type (2021-2026) & (USD Million)

Table 37. World Biodegradable Medical Polymer Market Size by Source Material Type (2027-2032) & (USD Million)

Table 38. World Biodegradable Medical Polymer Market Size by Application, (USD Million), 2021 & 2025 & 2032

Table 39. World Biodegradable Medical Polymer Market Size by Application (2021-2026) & (USD Million)

Table 40. World Biodegradable Medical Polymer Market Size by Application

(2027-2032) & (USD Million)

Table 41. Evonik Basic Information, Manufacturing Base and Competitors

Table 42. Evonik Major Business

Table 43. Evonik Biodegradable Medical Polymer Product and Services

Table 44. Evonik Biodegradable Medical Polymer Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 45. Evonik Recent Developments/Updates

Table 46. Evonik Competitive Strengths & Weaknesses

Table 47. Corbion Basic Information, Manufacturing Base and Competitors

Table 48. Corbion Major Business

Table 49. Corbion Biodegradable Medical Polymer Product and Services

Table 50. Corbion Biodegradable Medical Polymer Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 51. Corbion Recent Developments/Updates

Table 52. Corbion Competitive Strengths & Weaknesses

Table 53. DSM-Firmenich Basic Information, Manufacturing Base and Competitors

Table 54. DSM-Firmenich Major Business

Table 55. DSM-Firmenich Biodegradable Medical Polymer Product and Services

Table 56. DSM-Firmenich Biodegradable Medical Polymer Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 57. DSM-Firmenich Recent Developments/Updates

Table 58. DSM-Firmenich Competitive Strengths & Weaknesses

Table 59. Poly-Med Basic Information, Manufacturing Base and Competitors

Table 60. Poly-Med Major Business

Table 61. Poly-Med Biodegradable Medical Polymer Product and Services

Table 62. Poly-Med Biodegradable Medical Polymer Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 63. Poly-Med Recent Developments/Updates

Table 64. Poly-Med Competitive Strengths & Weaknesses

Table 65. Ashland Basic Information, Manufacturing Base and Competitors

Table 66. Ashland Major Business

Table 67. Ashland Biodegradable Medical Polymer Product and Services

Table 68. Ashland Biodegradable Medical Polymer Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 69. Ashland Recent Developments/Updates

Table 70. Ashland Competitive Strengths & Weaknesses

Table 71. For?creu Basic Information, Manufacturing Base and Competitors

Table 72. For?creu Major Business

Table 73. For?creu Biodegradable Medical Polymer Product and Services

Table 74. For?creu Biodegradable Medical Polymer Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 75. For?creu Recent Developments/Updates

Table 76. For?creu Competitive Strengths & Weaknesses

Table 77. Zeus Company LLC Basic Information, Manufacturing Base and Competitors

Table 78. Zeus Company LLC Major Business

Table 79. Zeus Company LLC Biodegradable Medical Polymer Product and Services

Table 80. Zeus Company LLC Biodegradable Medical Polymer Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 81. Zeus Company LLC Recent Developments/Updates

Table 82. Zeus Company LLC Competitive Strengths & Weaknesses

Table 83. REVA Basic Information, Manufacturing Base and Competitors

Table 84. REVA Major Business

Table 85. REVA Biodegradable Medical Polymer Product and Services

Table 86. REVA Biodegradable Medical Polymer Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 87. REVA Recent Developments/Updates

Table 88. REVA Competitive Strengths & Weaknesses

Table 89. DuPont Basic Information, Manufacturing Base and Competitors

Table 90. DuPont Major Business

Table 91. DuPont Biodegradable Medical Polymer Product and Services

Table 92. DuPont Biodegradable Medical Polymer Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 93. DuPont Recent Developments/Updates

Table 94. DuPont Competitive Strengths & Weaknesses

Table 95. BMG Inc Basic Information, Manufacturing Base and Competitors

Table 96. BMG Inc Major Business

Table 97. BMG Inc Biodegradable Medical Polymer Product and Services

Table 98. BMG Inc Biodegradable Medical Polymer Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 99. BMG Inc Recent Developments/Updates

Table 100. BMG Inc Competitive Strengths & Weaknesses

Table 101. Geon Performance Solutions LLC Basic Information, Manufacturing Base and Competitors

Table 102. Geon Performance Solutions LLC Major Business

Table 103. Geon Performance Solutions LLC Biodegradable Medical Polymer Product and Services

Table 104. Geon Performance Solutions LLC Biodegradable Medical Polymer Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 105. Geon Performance Solutions LLC Recent Developments/Updates

Table 106. Geon Performance Solutions LLC Competitive Strengths & Weaknesses

Table 107. Bezwada Biomedical LLC Basic Information, Manufacturing Base and Competitors

Table 108. Bezwada Biomedical LLC Major Business

Table 109. Bezwada Biomedical LLC Biodegradable Medical Polymer Product and Services

Table 110. Bezwada Biomedical LLC Biodegradable Medical Polymer Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 111. Bezwada Biomedical LLC Recent Developments/Updates

Table 112. Bezwada Biomedical LLC Competitive Strengths & Weaknesses

Table 113. Mitsui Chemicals Basic Information, Manufacturing Base and Competitors

Table 114. Mitsui Chemicals Major Business

Table 115. Mitsui Chemicals Biodegradable Medical Polymer Product and Services

Table 116. Mitsui Chemicals Biodegradable Medical Polymer Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 117. Mitsui Chemicals Recent Developments/Updates

Table 118. Mitsui Chemicals Competitive Strengths & Weaknesses

Table 119. Global Key Players of Biodegradable Medical Polymer Upstream (Raw Materials)

Table 120. Global Biodegradable Medical Polymer Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Biodegradable Medical Polymer Picture

Figure 2. World Biodegradable Medical Polymer Total Revenue: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Biodegradable Medical Polymer Total Revenue (2021-2032) & (USD Million)

Figure 4. World Biodegradable Medical Polymer Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Figure 5. World Biodegradable Medical Polymer Revenue Market Share by Region (2021-2032), (by Headquarter Location)

Figure 6. United States Based Company Biodegradable Medical Polymer Revenue (2021-2032) & (USD Million)

Figure 7. China Based Company Biodegradable Medical Polymer Revenue (2021-2032) & (USD Million)

Figure 8. Europe Based Company Biodegradable Medical Polymer Revenue (2021-2032) & (USD Million)

Figure 9. Japan Based Company Biodegradable Medical Polymer Revenue (2021-2032) & (USD Million)

Figure 10. South Korea Based Company Biodegradable Medical Polymer Revenue (2021-2032) & (USD Million)

Figure 11. ASEAN Based Company Biodegradable Medical Polymer Revenue (2021-2032) & (USD Million)

Figure 12. India Based Company Biodegradable Medical Polymer Revenue (2021-2032) & (USD Million)

Figure 13. Biodegradable Medical Polymer Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Biodegradable Medical Polymer Consumption Value (2021-2032) & (USD Million)

Figure 16. World Biodegradable Medical Polymer Consumption Value Market Share by Region (2021-2032)

Figure 17. United States Biodegradable Medical Polymer Consumption Value (2021-2032) & (USD Million)

Figure 18. China Biodegradable Medical Polymer Consumption Value (2021-2032) & (USD Million)

Figure 19. Europe Biodegradable Medical Polymer Consumption Value (2021-2032) & (USD Million)

Figure 20. Japan Biodegradable Medical Polymer Consumption Value (2021-2032) & (USD Million)

Figure 21. South Korea Biodegradable Medical Polymer Consumption Value (2021-2032) & (USD Million)

Figure 22. ASEAN Biodegradable Medical Polymer Consumption Value (2021-2032) & (USD Million)

Figure 23. India Biodegradable Medical Polymer Consumption Value (2021-2032) & (USD Million)

Figure 24. Producer Shipments of Biodegradable Medical Polymer by Player Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Biodegradable Medical Polymer Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Biodegradable Medical Polymer Markets in 2025

Figure 27. United States VS China: Biodegradable Medical Polymer Revenue Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Biodegradable Medical Polymer Consumption Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. World Biodegradable Medical Polymer Market Size by Type, (USD Million), 2021 & 2025 & 2032

Figure 30. World Biodegradable Medical Polymer Market Size Market Share by Type in 2025

Figure 31. Polylactic Acid (PLA)

Figure 32. Polyglycolic Acid (PGA)

Figure 33. Polycaprolactone (PCL)

Figure 34. Poly(lactic-co-glycolic) Acid (PLGA)

Figure 35. Others

Figure 36. World Biodegradable Medical Polymer Market Size Market Share by Type (2021-2032)

Figure 37. World Biodegradable Medical Polymer Market Size by Manufacturing Technology Type, (USD Million), 2021 & 2025 & 2032

Figure 38. World Biodegradable Medical Polymer Market Size Market Share by Manufacturing Technology Type in 2025

Figure 39. Injection Molded

Figure 40. Extruded

Figure 41. Others

Figure 42. World Biodegradable Medical Polymer Market Size Market Share by Manufacturing Technology Type (2021-2032)

Figure 43. World Biodegradable Medical Polymer Market Size by Source Material Type,

(USD Million), 2021 & 2025 & 2032

Figure 44. World Biodegradable Medical Polymer Market Size Market Share by Source Material Type in 2025

Figure 45. Synthetic Bioresorbable

Figure 46. Natural Bioresorbable

Figure 47. Bio-Based Bioresorbable

Figure 48. Hybrid Composite Bioresorbable

Figure 49. Others

Figure 50. World Biodegradable Medical Polymer Market Size Market Share by Source Material Type (2021-2032)

Figure 51. World Biodegradable Medical Polymer Market Size by Application, (USD Million), 2021 & 2025 & 2032

Figure 52. World Biodegradable Medical Polymer Market Size Market Share by Application in 2025

Figure 53. Orthopedic Implants

Figure 54. Cardiovascular Stents

Figure 55. Drug Delivery Systems

Figure 56. Surgical Sutures

Figure 57. Others

Figure 58. World Biodegradable Medical Polymer Market Size Market Share by Application (2021-2032)

Figure 59. Biodegradable Medical Polymer Industrial Chain

Figure 60. Methodology

Figure 61. Research Process and Data Source

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