

PLGA Market by Composition, Application (Medical, Non-Medical Applications), Processibility (Extrusion, Injection Molding), End-Use Industry (Healthcare, Biotech Firms, Medical Institutions, Packaging, Textile, Agriculture) - Global Forecast to 2030

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Abstracts

The PLGA market is projected to reach USD 321 million by 2030, at a CAGR of 16.6% from USD 125 million in 2024. Government initiatives and regulations wield substantial influence over the trajectory of the PLGA market. Regulatory support for biodegradable polymers, notably PLGA, varies globally, impacting market dynamics in significant ways. For instance, countries like Germany and France have implemented stringent regulations favoring eco-friendly materials in packaging. This has propelled the adoption of PLGA in the packaging industry, aligning with environmental directives and creating a demand for sustainable alternatives. In the healthcare sector, the US Food and Drug Administration (FDA) emphasizes the importance of biocompatibility and biodegradability in medical devices. This aligns with the qualities inherent in PLGA, positioning it favorably for use in medical implants and drug delivery systems. The European Medicines Agency (EMA) also follows a similar path, promoting the use of biodegradable materials in pharmaceutical applications, bolstering the market for PLGA-based drug delivery solutions. Furthermore, countries like Japan, with a strong focus on technological innovation, have implemented supportive policies for research and development in biodegradable polymers. Such initiatives encourage companies to invest in advancing technologies related to PLGA, fostering innovation and market growth.

“Based on composition type, high glycolic acid grades segment is expected to be the fastest growing market during the forecast period, in terms of value.”

These grades are distinguished by their exceptional purity, consistency, and specialized properties, catering to a variety of industrial and commercial applications beyond the medical field. In non-medical sectors, high glycolic acid PLGA grades find utility in diverse applications. For instance, in the cosmetics and personal care industry, they serve as valuable components in skincare formulations, offering benefits such as enhanced exfoliation, moisturization, and improved skin texture. Moreover, in the realm of agriculture, these grades may contribute to the development of biodegradable mulching films and controlled-release systems for agricultural chemicals, fostering sustainable practices. Additionally, high glycolic acid PLGA grades can be utilized in environmental applications, such as biodegradable packaging materials and wastewater treatment technologies, due to their biocompatibility and eco-friendly nature.

“Based on application, Drug delivery is the largest market during the forecast period, in terms of value.”

PLGA, a biodegradable and biocompatible polymer approved by regulatory authorities, serves as an ideal carrier for a diverse range of drugs, including small molecules, proteins, peptides, and nucleic acids. This technology enables pharmaceutical companies to enhance drug efficacy, improve patient compliance, and minimize side effects through targeted and sustained release formulations. The versatility of PLGA allows for customization of release kinetics, providing tailored therapeutic profiles suited to specific medical needs. Furthermore, PLGA-based drug delivery systems offer advantages such as prolonged circulation times, protection of drugs from degradation, and the ability to bypass biological barriers, thereby enhancing therapeutic outcomes.

“Based on region, Asia Pacific is the fastest growing market for PLGA in 2023, in terms of value.”

The Asia-Pacific region, particularly countries like China, India, and Southeast Asian nations, has experienced significant economic growth in recent years. This economic expansion has led to increased industrialization, urbanization, and a rise in consumer spending. The region is home to diverse and rapidly expanding industries, including textiles, healthcare, packaging, and plastics.

In the process of determining and verifying the market size for several segments and

subsegments identified through secondary research, extensive primary interviews were conducted. A breakdown of the profiles of the primary interviewees are as follows:

By Company Type: Tier 1 - 35%, Tier 2 - 45%, and Tier 3 - 20%

By Designation: C-Level - 35%, Director Level - 25%, and Others - 40%

By Region: North America - 30%, Europe - 20%, Asia Pacific - 40%, Middle East & Africa-5%, and Latin America-5%

The key players in this market are Evonik (Germany), Corbion NV (Netherlands), Ashland (US), Mitsui Chemicals (Japan), Jinan Digang Bioengineering Co., Ltd. (China), Merck (Germany), Akina, Inc. (US), Nomisma Healthcare Pvt. Ltd. (India), Bezwada Biomedical, LLC (US), CD Bioparticles (US).

Research Coverage

This report segments the PLGA market based on composition, processibility, application, end-use industry, and region, and provides estimations for the overall value of the market across various regions. A detailed analysis of key industry players has been conducted to provide insights into their business overviews, products and services, key strategies, new product launches, expansions, and mergers and acquisitions associated with the PLGA market.

Key benefits of buying this report

This research report focuses on various levels of analysis, including industry analysis (industry trends), market ranking analysis of top players, and company profiles, which together provide an overall view of the competitive landscape, emerging and high-growth segments of the PLGA market, high-growth regions, and market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

Analysis of key drivers (Exceptional biodegradability and biocompatibility nature, Government initiatives and regulations), restraints (Complex manufacturing process, Limited mechanical strength), opportunities (Global expansion in healthcare industry) and challenges (Cost intensive process and scalability

problem, Stiff competition from alternative material's).

Market Penetration: Comprehensive information on the PLGA market offered by top players in the global PLGA market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product launches in the PLGA market.

Market Development: Comprehensive information about lucrative emerging markets — the report analyzes the markets for PLGA market across regions.

Market Diversification: Exhaustive information about new products, untapped regions, and recent developments in the global PLGA market

Competitive Assessment: In-depth assessment of market shares, strategies, products, and manufacturing capabilities of leading players in the PLGA market

Contents

1 INTRODUCTION

- 1.1 STUDY OBJECTIVES
- 1.2 MARKET DEFINITION
 - 1.2.1 INCLUSIONS & EXCLUSIONS
- 1.3 STUDY SCOPE
 - 1.3.1 MARKETS COVERED
 - 1.3.2 REGIONS COVERED
 - 1.3.3 YEARS CONSIDERED
- 1.4 CURRENCY CONSIDERED
- 1.5 UNITS CONSIDERED
- 1.6 STAKEHOLDERS

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
 - FIGURE 1 PLGA MARKET: RESEARCH DESIGN
 - 2.1.1 SECONDARY DATA
 - 2.1.1.1 Key data from secondary sources
 - 2.1.2 PRIMARY DATA
 - 2.1.2.1 Key data from primary sources
 - 2.1.2.2 Primary interviews – demand and supply side
 - 2.1.2.3 Key industry insights
 - 2.1.2.4 Breakdown of primary interviews
 - 2.2 MARKET SIZE ESTIMATION
 - 2.2.1 BOTTOM-UP APPROACH
 - FIGURE 2 PLGA MARKET: BOTTOM-UP APPROACH
 - 2.2.2 TOP-DOWN APPROACH
 - FIGURE 3 PLGA MARKET: TOP-DOWN APPROACH
 - 2.3 FORECAST NUMBER CALCULATION
 - FIGURE 4 DEMAND-SIDE FORECAST PROJECTIONS
 - 2.4 DATA TRIANGULATION
 - FIGURE 5 PLGA MARKET: DATA TRIANGULATION
 - 2.5 FACTOR ANALYSIS
 - 2.6 ASSUMPTIONS
 - 2.7 LIMITATIONS & RISKS ASSOCIATED WITH PLGA MARKET
 - 2.8 RECESSION IMPACT

3 EXECUTIVE SUMMARY

FIGURE 6 EXTRUSION PROCESS TO BE LARGEST SEGMENT DURING FORECAST PERIOD

FIGURE 7 HIGH LACTIC ACID GRADE TO BE LEADING COMPOSITION TYPE SEGMENT DURING FORECAST PERIOD

FIGURE 8 PACKAGING TO BE FASTEST-GROWING END-USE INDUSTRY DURING FORECAST PERIOD

FIGURE 9 NON-MEDICAL TO BE FASTER-GROWING APPLICATION SEGMENT DURING FORECAST PERIOD

FIGURE 10 ASIA PACIFIC TO BE FASTEST-GROWING MARKET DURING FORECAST PERIOD

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN PLGA MARKET

FIGURE 11 EMERGING ECONOMIES TO WITNESS HIGH GROWTH IN PLGA MARKET

4.2 PLGA MARKET, BY END-USE INDUSTRY

FIGURE 12 PACKAGING INDUSTRY TO LEAD OVERALL MARKET, DURING FORECAST PERIOD

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 13 DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES IN PLGA MARKET

5.2.1 DRIVERS

5.2.1.1 Exceptional biodegradability and biocompatibility

5.2.1.2 Enhanced barrier properties of PLGA elevating food preservation

5.2.1.3 Government initiatives and regulations

TABLE 1 PLGA MARKET: GOVERNMENT INITIATIVES AND REGULATIONS

5.2.2 RESTRAINTS

5.2.2.1 Complex manufacturing process

5.2.2.2 Limited mechanical strength

5.2.3 OPPORTUNITIES

5.2.3.1 Promising frontier in mulch film application

5.2.3.2 Leveraging PLGA poly-coated films for sustainable food service packaging

5.2.3.3 Global expansion in healthcare industry

5.2.4 CHALLENGES

5.2.4.1 Cost-intensive process and scalability problem

5.2.4.2 Stiff competition from alternative materials

5.3 VALUE CHAIN ANALYSIS

FIGURE 14 VALUE CHAIN ANALYSIS

5.3.1 RAW MATERIAL SUPPLIERS

5.3.2 MANUFACTURERS

5.3.3 DISTRIBUTORS

5.3.4 END USERS

5.4 PORTER'S FIVE FORCES ANALYSIS

FIGURE 15 PLGA MARKET: PORTER'S FIVE FORCES ANALYSIS

5.4.1 THREAT OF NEW ENTRANTS

5.4.2 THREAT OF SUBSTITUTES

5.4.3 BARGAINING POWER OF SUPPLIERS

5.4.4 BARGAINING POWER OF BUYERS

5.4.5 INTENSITY OF COMPETITIVE RIVALRY

TABLE 2 PLGA MARKET: PORTER'S FIVE FORCES ANALYSIS

5.5 PATENT ANALYSIS

5.5.1 METHODOLOGY

5.5.2 DOCUMENT TYPES

FIGURE 16 GRANTED PATENTS

5.5.3 PUBLICATION TRENDS IN LAST 10 YEARS

5.5.4 INSIGHTS

5.5.5 JURISDICTION ANALYSIS

5.5.6 TOP APPLICANTS

TABLE 3 TOP PATENT APPLICANTS IN LAST 10 YEARS

5.6 ECOSYSTEM/MARKET MAP

FIGURE 17 PLGA MARKET ECOSYSTEM

TABLE 4 PLGA: ECOSYSTEM

5.7 TRADE ANALYSIS

5.7.1 IMPORT SCENARIO OF POLYLACTIC ACID

FIGURE 18 IMPORT OF PLA, BY KEY COUNTRY, 2018–2022

5.7.2 EXPORT SCENARIO OF POLYLACTIC ACID

FIGURE 19 EXPORT OF PLA, BY KEY COUNTRY, 2018–2022

5.8 MACROECONOMIC OVERVIEW AND KEY TRENDS

5.8.1 PLASTIC PRODUCTION

TABLE 5 PLASTIC PRODUCTION (MILLION TONS)

5.8.2 EU PACKAGING WASTE GENERATED, RECOVERED, AND RECYCLED
FIGURE 20 EU PACKAGING WASTE GENERATED, RECOVERED, AND RECYCLED,
2010–2021 (KG/CAPITA)

5.9 TECHNOLOGY ANALYSIS

5.9.1 VOLTA TECHNOLOGY

5.9.2 NANOPARTICLE FORMULATION

5.9.3 SMART PLGA SYSTEMS

5.9.4 HYBRID MATERIALS

5.10 TARIFF & REGULATORY LANDSCAPE

5.10.1 KEY COUNTRY-LEVEL ANALYSIS OF REGULATORY DEVELOPMENTS
FAVORING ADOPTION OF PLGA

5.10.1.1 Direct Developments

5.10.1.1.1 Regulatory bodies, government agencies, and other organizations
TABLE 6 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER
ORGANIZATIONS

5.11 INDIRECT DEVELOPMENTS

5.11.1 NORTH AMERICA

5.11.1.1 US

5.11.1.2 Canada

5.11.1.3 Mexico

5.11.2 EUROPE

5.11.2.1 Germany

5.11.2.2 France

5.11.2.3 Spain

5.11.2.4 UK

5.11.2.5 Sweden

5.11.3 ASIA PACIFIC

5.11.3.1 China

5.11.3.2 Japan

5.11.3.3 India

5.11.3.4 Australia & New Zealand

5.11.3.5 Other Asian Countries

5.11.4 MIDDLE EAST & AFRICA AND SOUTH AMERICA

5.11.4.1 Middle East & Africa

5.11.4.2 South America

5.12 EARLY ADOPTING COUNTRIES

FIGURE 21 SINGLE-USE PLASTIC BAN, BY COUNTRY

FIGURE 22 ROAD TO NET ZERO: CARBON NEUTRALITY BY TARGET YEAR

FIGURE 23 EARLY ADOPTING COUNTRIES FOR PLGA

5.12.1 US

5.12.2 CANADA

5.12.3 GERMANY

5.12.4 CHINA

5.12.5 UK

5.12.6 JAPAN

5.12.7 DENMARK

5.12.8 NETHERLANDS

5.12.9 SWEDEN

5.12.10 NORWAY

5.13 MEDIUM ADOPTING COUNTRIES

FIGURE 24 MEDIUM ADOPTING COUNTRIES FOR PLGA

5.13.1 INDIA

5.13.2 FRANCE

5.13.3 AUSTRALIA

5.13.4 BRAZIL

5.13.5 SOUTH KOREA

5.13.6 SPAIN

5.13.7 MEXICO

5.13.8 THAILAND

5.13.9 POLAND

5.13.10 TURKEY

5.14 TRENDS/DISRUPTIONS IMPACTING CUSTOMER'S BUSINESS

FIGURE 25 TRENDS/DISRUPTIONS IMPACTING CUSTOMER'S BUSINESS IN PLGA MARKET

5.15 KEY CONFERENCES & EVENTS IN 2024–2025

TABLE 7 PLGA MARKET: KEY CONFERENCES & EVENTS, 2024–2025

5.16 KEY STAKEHOLDERS & BUYING CRITERIA

5.16.1 KEY UNMET NEEDS OF VARIOUS END USERS

5.17 KEY STAKEHOLDERS IN BUYING PROCESS

5.17.1 BUYING CRITERIA

FIGURE 26 SUPPLIER SELECTION CRITERION

5.17.1.1 Price

5.17.1.2 Sustainability

5.17.1.3 Performance (Barrier Properties)

5.17.1.4 Availability

5.17.1.5 Regulations

5.17.1.6 Brand Reputation

5.17.1.7 Market Trends

5.17.1.8 Application Suitability

5.18 COMPARATIVE MARKET REPLACEMENT ASSESSMENT FOR PLGA REPLACING ALTERNATIVE POLYMERS

5.18.1 FOOD PACKAGING

5.18.1.1 Comparison with bio-based polymers

5.18.1.2 Comparison with fossil-based polymers

5.18.2 DISPOSABLE CUTLERY

5.18.2.1 Comparison with bio-based polymers

5.18.2.2 Comparison with fossil-based polymers

5.18.3 AGRICULTURE FILMS

5.18.3.1 Comparison with bio-based polymers

5.18.3.2 Comparison with fossil-based polymers

5.19 PRICING ANALYSIS

5.19.1 PLGA PRICING TREND

5.19.1.1 Average selling price trend, by end user

FIGURE 27 AVERAGE SELLING PRICE, BY PRODUCT TYPE (USD/KG)

5.19.2 PLGA PRICES IN COMPARISON OF OTHER NEAREST COMPETING POLYMERS

5.19.2.1 Comparative average selling price trend, by type

FIGURE 28 COMPARATIVE AVERAGE SELLING PRICE, BY PRODUCT TYPE (USD/KG)

5.20 CASE STUDY ANALYSIS

5.20.1 NOMISMA HEALTHCARE

5.21 INVESTMENT AND FUNDING SCENARIO

FIGURE 29 INVESTMENT AND FUNDING SCENARIO

5.22 FUNDING, BY USE-CASE/APPLICATION

FIGURE 30 FUNDING, BY USE-CASE/APPLICATION

6 PLGA MARKET, BY END-USE INDUSTRY

6.1 INTRODUCTION

FIGURE 31 PLGA MARKET, BY END-USE INDUSTRY, 2023–2030 (USD MILLION)

TABLE 8 PLGA MARKET, BY END-USE INDUSTRY, 2020–2022 (USD MILLION)

TABLE 9 PLGA MARKET, BY END-USE INDUSTRY, 2023–2030 (USD MILLION)

TABLE 10 PLGA MARKET, BY END-USE INDUSTRY, 2020–2022 (TON)

TABLE 11 PLGA MARKET, BY END-USE INDUSTRY, 2023–2030 (TON)

6.2 HEALTHCARE

6.2.1 INNOVATION IN TREATMENT OPTIONS TO DRIVE MARKET

6.3 BIOTECH FIRMS

6.3.1 INCREASING DEMAND FOR REGENERATIVE THERAPIES TO DRIVE MARKET

6.4 MEDICAL INSTITUTIONS

6.4.1 WIDESPREAD ADOPTION AND INTEGRATION TO DRIVE MARKET

6.5 PACKAGING

6.5.1 COMPATIBILITY WITH INDUSTRY REGULATIONS TO DRIVE MARKET

6.6 TEXTILE

6.6.1 GROWING DEMAND FOR SUSTAINABLE AND ETHICALLY PRODUCED GOODS TO DRIVE MARKET

6.7 AGRICULTURE

6.7.1 LOW LABOR AND OPERATIONAL COSTS TO DRIVE MARKET

6.8 OTHER END-USE INDUSTRIES

7 PLGA MARKET, BY COMPOSITION

7.1 INTRODUCTION

FIGURE 32 PLGA MARKET, BY COMPOSITION, 2023–2030 (USD MILLION)

TABLE 12 PLGA MARKET, BY COMPOSITION, 2020–2022 (USD MILLION)

TABLE 13 PLGA MARKET, BY COMPOSITION, 2023–2030 (USD MILLION)

7.2 HIGH LACTIC ACID GRADE

7.2.1 DEVELOPMENT OF ADVANCED MEDICAL TREATMENTS AND INTERVENTIONS TO DRIVE MARKET

7.2.2 PLGA 50:50

7.2.3 PLGA 55:45

7.2.4 PLGA 65:35

7.2.5 PLGA 75:25

7.2.6 PLGA 85:15

7.2.7 OTHER HIGH LACTIC ACID GRADE

7.3 HIGH GLYCOLIC ACID GRADE

7.3.1 ADVANCED DEGRADATION KINETICS AND HYDROPHILICITY TO DRIVE MARKET

7.3.2 PLGA 12:88

7.3.3 PLGA 10:90

7.3.4 OTHER HIGH GLYCOLIC ACID GRADE

8 PLGA MARKET, BY APPLICATION

8.1 INTRODUCTION

FIGURE 33 NON-MEDICAL APPLICATION TO REGISTER HIGHER CAGR DURING

PLGA Market by Composition, Application (Medical, Non-Medical Applications), Processibility (Extrusion, Inject...

FORECAST PERIOD

TABLE 14 PLGA MARKET, BY APPLICATION, 2020–2022 (USD MILLION)

TABLE 15 PLGA MARKET, BY APPLICATION, 2023–2030 (USD MILLION)

8.2 MEDICAL APPLICATIONS

8.3 NON-MEDICAL APPLICATIONS

8.3.1 PACKAGING

8.3.1.1 Food Packaging

8.3.1.2 Other packaging applications

8.3.2 DISPOSABLE CUTLERY

8.3.3 TEXTILE

8.3.4 AGRICULTURE FILMS

8.3.5 OTHER NON-MEDICAL APPLICATIONS

9 PLGA MARKET, BY PROCESSIBILITY

9.1 INTRODUCTION

FIGURE 34 INJECTION MOLDING SEGMENT TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

TABLE 16 PLGA MARKET, BY PROCESSIBILITY, 2020–2022 (USD MILLION)

TABLE 17 PLGA MARKET, BY PROCESSIBILITY, 2023–2030 (USD MILLION)

9.2 EXTRUSION

9.3 INJECTION MOLDING

9.4 OTHER PROCESSIBILITIES

10 PLGA MARKET, BY REGION

10.1 INTRODUCTION

FIGURE 35 JAPAN TO LEAD PLGA MARKET DURING FORECAST PERIOD

TABLE 18 PLGA MARKET, BY REGION, 2020–2022 (USD MILLION)

TABLE 19 PLGA MARKET, BY REGION, 2023–2030 (USD MILLION)

TABLE 20 PLGA MARKET, BY REGION, 2020–2022 (TON)

TABLE 21 PLGA MARKET, BY REGION, 2023–2030 (TON)

10.2 NORTH AMERICA

10.2.1 RECESSION IMPACT

FIGURE 36 NORTH AMERICA: PLGA MARKET SNAPSHOT

TABLE 22 NORTH AMERICA: PLGA MARKET, BY COUNTRY, 2020–2022 (USD MILLION)

TABLE 23 NORTH AMERICA: PLGA MARKET, BY COUNTRY, 2023–2030 (USD MILLION)

TABLE 24 NORTH AMERICA: PLGA MARKET, BY COUNTRY, 2020–2022 (TON)

TABLE 25 NORTH AMERICA: PLGA MARKET, BY COUNTRY, 2023–2030 (TON)

TABLE 26 NORTH AMERICA: PLGA MARKET, BY END-USE INDUSTRY, 2020–2022 (USD MILLION)

TABLE 27 NORTH AMERICA: PLGA MARKET, BY END-USE INDUSTRY, 2023–2030 (USD MILLION)

TABLE 28 NORTH AMERICA: PLGA MARKET, BY END-USE INDUSTRY, 2020–2022 (TON)

TABLE 29 NORTH AMERICA: PLGA MARKET, BY END-USE INDUSTRY, 2023–2030 (TON)

10.2.2 US

10.2.2.1 Stringent environmental regulations to drive market

TABLE 30 US: PLGA MARKET, BY END-USE INDUSTRY, 2020–2022 (USD MILLION)

TABLE 31 US: PLGA MARKET, BY END-USE INDUSTRY, 2023–2030 (USD MILLION)

10.2.3 CANADA

10.2.3.1 Highly diversified and developed economy to drive market

TABLE 32 CANADA: PLGA MARKET, BY END-USE INDUSTRY, 2020–2022 (USD MILLION)

TABLE 33 CANADA: PLGA MARKET, BY END-USE INDUSTRY, 2023–2030 (USD MILLION)

10.2.4 MEXICO

10.2.4.1 Skilled workforce, geographic advantages, and political and economic stability to drive market

TABLE 34 MEXICO: PLGA MARKET, BY END-USE INDUSTRY, 2020–2022 (USD MILLION)

TABLE 35 MEXICO: PLGA MARKET, BY END-USE INDUSTRY, 2023–2030 (USD MILLION)

10.3 ASIA PACIFIC

10.3.1 RECESSION IMPACT

FIGURE 37 ASIA PACIFIC: PLGA MARKET SNAPSHOT

TABLE 36 ASIA PACIFIC: PLGA MARKET, BY COUNTRY, 2020–2022 (USD MILLION)

TABLE 37 ASIA PACIFIC: PLGA MARKET, BY COUNTRY, 2023–2030 (USD MILLION)

TABLE 38 ASIA PACIFIC: PLGA MARKET, BY COUNTRY, 2020–2022 (TON)

TABLE 39 ASIA PACIFIC: PLGA MARKET, BY COUNTRY, 2023–2030 (TON)

TABLE 40 ASIA PACIFIC: PLGA MARKET, BY END-USE INDUSTRY, 2020–2022 (USD MILLION)

TABLE 41 ASIA PACIFIC: PLGA MARKET, BY END-USE INDUSTRY, 2023–2030 (USD MILLION)

TABLE 42 ASIA PACIFIC: PLGA MARKET, BY END-USE INDUSTRY, 2020–2022

(TON)

TABLE 43 ASIA PACIFIC: PLGA MARKET, BY END-USE INDUSTRY, 2023–2030

(TON)

10.3.2 CHINA

10.3.2.1 Stringent regulatory frameworks and open economy to drive market

TABLE 44 CHINA: PLGA MARKET, BY END-USE INDUSTRY, 2020–2022 (USD MILLION)

TABLE 45 CHINA: PLGA MARKET, BY END-USE INDUSTRY, 2023–2030 (USD MILLION)

10.3.3 JAPAN

10.3.3.1 Rapidly aging population and well-established R&D centers to drive market

TABLE 46 JAPAN: PLGA MARKET, BY END-USE INDUSTRY, 2020–2022 (USD MILLION)

TABLE 47 JAPAN: PLGA MARKET, BY END-USE INDUSTRY, 2023–2030 (USD MILLION)

10.3.4 INDIA

10.3.4.1 High purchasing power, changing buyers' preferences, and government initiatives to drive market

TABLE 48 INDIA: PLGA MARKET, BY END-USE INDUSTRY, 2020–2022 (USD MILLION)

TABLE 49 INDIA: PLGA MARKET, BY END-USE INDUSTRY, 2023–2030 (USD MILLION)

10.3.5 SOUTH KOREA

10.3.5.1 Favorable government policies to drive market

TABLE 50 SOUTH KOREA: PLGA MARKET, BY END-USE INDUSTRY, 2020–2022 (USD MILLION)

TABLE 51 SOUTH KOREA: PLGA MARKET, BY END-USE INDUSTRY, 2023–2030 (USD MILLION)

10.3.6 REST OF ASIA PACIFIC

TABLE 52 REST OF ASIA PACIFIC: PLGA MARKET, BY END-USE INDUSTRY, 2020–2022 (USD MILLION)

TABLE 53 REST OF ASIA PACIFIC: PLGA MARKET, BY END-USE INDUSTRY, 2023–2030 (USD MILLION)

10.4 EUROPE

10.4.1 RECESSION IMPACT

FIGURE 38 EUROPE: PLGA MARKET SNAPSHOT

TABLE 54 EUROPE: PLGA MARKET, BY COUNTRY, 2020–2022 (USD MILLION)

TABLE 55 EUROPE: PLGA MARKET, BY COUNTRY, 2023–2030 (USD MILLION)

TABLE 56 EUROPE: PLGA MARKET, BY COUNTRY, 2020–2022 (TON)

TABLE 57 EUROPE: PLGA MARKET, BY COUNTRY, 2023–2030 (TON)

TABLE 58 EUROPE: PLGA MARKET, BY END-USE INDUSTRY, 2020–2022 (USD MILLION)

TABLE 59 EUROPE: PLGA MARKET, BY END-USE INDUSTRY, 2023–2030 (USD MILLION)

TABLE 60 EUROPE: PLGA MARKET, BY END-USE INDUSTRY, 2020–2022 (TON)

TABLE 61 EUROPE: PLGA MARKET, BY END-USE INDUSTRY, 2023–2030 (TON)

10.4.2 GERMANY

10.4.2.1 Business-friendly tax conditions and export-driven economy to drive market

TABLE 62 GERMANY: PLGA MARKET, BY END-USE INDUSTRY, 2020–2022 (USD MILLION)

TABLE 63 GERMANY: PLGA MARKET, BY END-USE INDUSTRY, 2023–2030 (USD MILLION)

10.4.3 FRANCE

10.4.3.1 Final incentives and single-use plastic ban to boost market

TABLE 64 FRANCE: PLGA MARKET, BY END-USE INDUSTRY, 2020–2022 (USD MILLION)

TABLE 65 FRANCE: PLGA MARKET, BY END-USE INDUSTRY, 2023–2030 (USD MILLION)

10.4.4 UK

10.4.4.1 New reformed policies and renewed investments to drive market

TABLE 66 UK: PLGA MARKET, BY END-USE INDUSTRY, 2020–2022 (USD MILLION)

TABLE 67 UK: PLGA MARKET, BY END-USE INDUSTRY, 2023–2030 (USD MILLION)

10.4.5 ITALY

10.4.5.1 Growth of packaging industry to boost market

TABLE 68 ITALY: PLGA MARKET, BY END-USE INDUSTRY, 2020–2022 (USD MILLION)

TABLE 69 ITALY: PLGA MARKET, BY END-USE INDUSTRY, 2023–2030 (USD MILLION)

10.4.6 REST OF EUROPE

TABLE 70 REST OF EUROPE: PLGA MARKET, BY END-USE INDUSTRY, 2020–2022 (USD MILLION)

TABLE 71 REST OF EUROPE: PLGA MARKET, BY END-USE INDUSTRY, 2023–2030 (USD MILLION)

10.5 MIDDLE EAST & AFRICA

10.5.1 RECESSION IMPACT

TABLE 72 MIDDLE EAST & AFRICA: PLGA MARKET, BY COUNTRY, 2020–2022 (USD MILLION)

TABLE 73 MIDDLE EAST & AFRICA: PLGA MARKET, BY COUNTRY, 2023–2030

(USD MILLION)

TABLE 74 MIDDLE EAST & AFRICA: PLGA MARKET, BY COUNTRY, 2020–2022
(TON)

TABLE 75 MIDDLE EAST & AFRICA: PLGA MARKET, BY COUNTRY, 2023–2030
(TON)

TABLE 76 MIDDLE EAST & AFRICA: PLGA MARKET, BY END-USE INDUSTRY,
2020–2022 (USD MILLION)

TABLE 77 MIDDLE EAST & AFRICA: PLGA MARKET, BY END-USE INDUSTRY,
2023–2030 (USD MILLION)

TABLE 78 MIDDLE EAST & AFRICA: PLGA MARKET, BY END-USE INDUSTRY,
2020–2022 (TON)

TABLE 79 MIDDLE EAST & AFRICA: PLGA MARKET, BY END-USE INDUSTRY,
2023–2030 (TON)

10.5.2 GCC COUNTRIES

TABLE 80 GCC COUNTRIES: PLGA MARKET, BY END-USE INDUSTRY, 2020–2022
(USD MILLION)

TABLE 81 GCC COUNTRIES: PLGA MARKET, BY END-USE INDUSTRY, 2023–2030
(USD MILLION)

10.5.2.1 SAUDI ARABIA

10.5.2.1.1 Demographic shifts, urbanization, and workforce productivity to drive
market

TABLE 82 SAUDI ARABIA: PLGA MARKET, BY END-USE INDUSTRY, 2020–2022
(USD MILLION)

TABLE 83 SAUDI ARABIA: PLGA MARKET, BY END-USE INDUSTRY, 2023–2030
(USD MILLION)

10.5.3 SOUTH AFRICA

10.5.3.1 Advancements in bioplastic research and innovation to drive market

TABLE 84 SOUTH AFRICA: PLGA MARKET, BY END-USE INDUSTRY, 2020–2022
(USD MILLION)

TABLE 85 SOUTH AFRICA: PLGA MARKET, BY END-USE INDUSTRY, 2023–2030
(USD MILLION)

10.5.4 REST OF THE MIDDLE EAST & AFRICA

TABLE 86 REST OF MIDDLE EAST & AFRICA: PLGA MARKET, BY END-USE
INDUSTRY, 2020–2022 (USD MILLION)

TABLE 87 REST OF MIDDLE EAST & AFRICA: PLGA MARKET, BY END-USE
INDUSTRY, 2023–2030 (USD MILLION)

10.6 SOUTH AMERICA

10.6.1 RECESSION IMPACT

TABLE 88 SOUTH AMERICA: PLGA MARKET, BY COUNTRY, 2020–2022 (USD

MILLION)

TABLE 89 SOUTH AMERICA: PLGA MARKET, BY COUNTRY, 2023–2030 (USD MILLION)

TABLE 90 SOUTH AMERICA: PLGA MARKET, BY COUNTRY, 2020–2022 (TON)

TABLE 91 SOUTH AMERICA: PLGA MARKET, BY COUNTRY, 2023–2030 (TON)

TABLE 92 SOUTH AMERICA: PLGA MARKET, BY END-USE INDUSTRY, 2020–2022 (USD MILLION)

TABLE 93 SOUTH AMERICA: PLGA MARKET, BY END-USE INDUSTRY, 2023–2030 (USD MILLION)

TABLE 94 SOUTH AMERICA: PLGA MARKET, BY END-USE INDUSTRY, 2020–2022 (TON)

TABLE 95 SOUTH AMERICA: PLGA MARKET, BY END-USE INDUSTRY, 2023–2030 (TON)

10.6.2 BRAZIL

10.6.2.1 High demand for personal care, home care & toiletries, and functional & nutraceutical foods to drive market

TABLE 96 BRAZIL: PLGA MARKET, BY END-USE INDUSTRY, 2020–2022 (USD MILLION)

TABLE 97 BRAZIL: PLGA MARKET, BY END-USE INDUSTRY, 2023–2030 (USD MILLION)

10.6.3 REST OF SOUTH AMERICA

TABLE 98 REST OF SOUTH AMERICA: PLGA MARKET, BY END-USE INDUSTRY, 2020–2022 (USD MILLION)

TABLE 99 REST OF SOUTH AMERICA: PLGA MARKET, BY END-USE INDUSTRY, 2023–2030 (USD MILLION)

11 COMPETITIVE LANDSCAPE

11.1 KEY PLAYER STRATEGIES/RIGHT TO WIN

FIGURE 39 COMPANIES ADOPTED PRODUCT LAUNCH AND EXPANSION AS KEY GROWTH STRATEGIES BETWEEN 2019 AND 2023

11.2 REVENUE ANALYSIS

FIGURE 40 REVENUE ANALYSIS

11.3 MARKET SHARE ANALYSIS

FIGURE 41 RANKING OF KEY MARKET PLAYERS

FIGURE 42 MARKET SHARE OF KEY PLAYERS, 2023

TABLE 100 PLGA MARKET: DEGREE OF COMPETITION

11.4 COMPANY EVALUATION MATRIX, 2023 (TIER 1)

11.4.1 STAR PLAYERS

11.4.2 EMERGING LEADERS

11.4.3 PERVASIVE PLAYERS

11.4.4 PARTICIPANTS

FIGURE 43 PLGA MARKET: COMPANY EVALUATION MATRIX, 2023

11.4.5 COMPANY FOOTPRINT

TABLE 101 COMPANY END-USE INDUSTRY FOOTPRINT

TABLE 102 COMPANY REGION FOOTPRINT

FIGURE 44 COMPANY PRODUCT FOOTPRINT

TABLE 103 COMPANY FOOTPRINT

11.5 START-UPS/SMES EVALUATION MATRIX

11.5.1 PROGRESSIVE COMPANIES

11.5.2 RESPONSIVE COMPANIES

11.5.3 DYNAMIC COMPANIES

11.5.4 STARTING BLOCKS

FIGURE 45 PLGA MARKET: START-UPS AND SMES MATRIX, 2023

11.5.5 COMPETITIVE BENCHMARKING

TABLE 104 PLGA MARKET: COMPETITIVE BENCHMARKING OF KEY START-UPS/SMES

TABLE 105 DETAILED LIST OF COMPANIES

11.6 COMPANY VALUATION AND FINANCIAL MATRIX

FIGURE 46 COMPANY VALUATION

FIGURE 47 FINANCIAL METRICS

11.7 BRAND/PRODUCT COMPARISON

FIGURE 48 BRAND/PRODUCT COMPARISON

11.8 COMPETITIVE SCENARIO AND TRENDS

11.8.1 PRODUCT LAUNCHES

TABLE 106 PLGA MARKET: PRODUCT LAUNCHES, JANUARY 2019–DECEMBER 2023

11.8.2 DEALS

TABLE 107 PLGA MARKET: DEALS, JANUARY 2019–DECEMBER 2023

11.8.3 EXPANSIONS

TABLE 108 PLGA MARKET: EXPANSIONS, JANUARY 2019–DECEMBER 2023

12 COMPANY PROFILES

12.1 MAJOR PLAYERS

(Business Overview, Products/Solutions/Services offered, Recent Developments, MnM View)*

12.1.1 EVONIK

TABLE 109 EVONIK: COMPANY OVERVIEW

FIGURE 49 EVONIK: COMPANY SNAPSHOT

TABLE 110 EVONIK: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 111 EVONIK: PRODUCT LAUNCHES

TABLE 112 EVONIK: DEALS

TABLE 113 EVONIK: OTHERS

12.1.2 CORBION NV

TABLE 114 CORBION NV: COMPANY OVERVIEW

FIGURE 50 CORBION NV: COMPANY SNAPSHOT

TABLE 115 CORBION NV: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 116 CORBION NV: DEALS

TABLE 117 CORBION NV: OTHERS

12.1.3 ASHLAND

TABLE 118 ASHLAND: COMPANY OVERVIEW

FIGURE 51 ASHLAND: COMPANY SNAPSHOT

TABLE 119 ASHLAND: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 120 ASHLAND: PRODUCT LAUNCHES

TABLE 121 ASHLAND: OTHERS

12.1.4 MITSUI CHEMICALS

TABLE 122 MITSUI CHEMICALS: COMPANY OVERVIEW

FIGURE 52 MITSUI CHEMICALS: COMPANY SNAPSHOT

TABLE 123 MITSUI CHEMICALS: PRODUCTS/SOLUTIONS/SERVICES OFFERED

12.1.5 MERCK KGAA

TABLE 124 MERCK KGAA: COMPANY OVERVIEW

TABLE 125 MERCK KGAA: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 126 MERCK KGAA: DEALS

TABLE 127 MERCK KGAA: OTHERS

12.1.6 JINAN DAIGANG BIOENGINEERING CO., LTD.

TABLE 128 JINAN DAIGANG BIOENGINEERING CO., LTD.: COMPANY OVERVIEW

TABLE 129 JINAN DAIGANG BIOENGINEERING CO., LTD.:

PRODUCTS/SOLUTIONS/ SERVICES OFFERED

12.1.7 AKINA, INC.

TABLE 130 AKINA, INC.: COMPANY OVERVIEW

TABLE 131 AKINA, INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

12.1.8 NOMISMA HEALTHCARE PVT. LTD.

TABLE 132 NOMISMA HEALTHCARE PVT. LTD.: COMPANY OVERVIEW

TABLE 133 NOMISMA HEALTHCARE PVT. LTD.:

PRODUCTS/SOLUTIONS/SERVICES OFFERED

12.1.9 BEZWADA BIOMEDICAL, LLC

TABLE 134 BEZWADA BIOMEDICAL, LLC: COMPANY OVERVIEW

TABLE 135 BEZWADA BIOMEDICAL, LLC: PRODUCTS/SOLUTIONS/SERVICES OFFERED

12.1.10 CD BIOPARTICLES

TABLE 136 CD BIOPARTICLES: COMPANY OVERVIEW

TABLE 137 CD BIOPARTICLES: PRODUCTS/SOLUTIONS/SERVICES OFFERED

12.2 OTHER KEY PLAYERS

12.2.1 CREATIVE PEGWORKS

TABLE 138 CREATIVE PEGWORKS: COMPANY OVERVIEW

12.2.2 POLYSCIENCES, INC.

TABLE 139 POLYSCIENCES, INC.: COMPANY OVERVIEW

12.2.3 SEQENS

TABLE 140 SEQENS: COMPANY OVERVIEW

12.2.4 ZEUS COMPANY INC.

TABLE 141 ZEUS COMPANY INC.: COMPANY OVERVIEW

12.2.5 HOSOKAWA MICRON GROUP

TABLE 142 HOSOKAWA MICRON GROUP: COMPANY OVERVIEW

12.2.6 BIOSYNTH LTD.

TABLE 143 BIOSYNTH LTD.: COMPANY OVERVIEW

12.2.7 FOSTER CORPORATION

TABLE 144 FOSTER CORPORATION: COMPANY OVERVIEW

12.2.8 TELEFLEX MEDICAL OEM

TABLE 145 TELEFLEX MEDICAL OEM.: COMPANY OVERVIEW

12.2.9 ALFA CHEMISTRY

TABLE 146 ALFA CHEMISTRY: COMPANY OVERVIEW

12.2.10 CREATIVE DIAGNOSTICS

TABLE 147 CREATIVE DIAGNOSTICS: COMPANY OVERVIEW

12.2.11 TTY BIOPHARM

TABLE 148 TTY BIOPHARM: COMPANY OVERVIEW

12.2.12 BMG INC.

TABLE 149 BMG INC.: COMPANY OVERVIEW

12.2.13 MUSASHINO

TABLE 150 MUSASHINO: COMPANY OVERVIEW

12.2.14 SPECIFIC POLYMERS

TABLE 151 SPECIFIC POLYMERS: COMPANY OVERVIEW

12.2.15 FORTIS LIFE SCIENCES

TABLE 152 FORTIS LIFE SCIENCES: COMPANY OVERVIEW

*Details on Business Overview, Products/Solutions/Services offered, Recent Developments, MnM View might not be captured in case of unlisted companies.

13 APPENDIX

13.1 DISCUSSION GUIDE

13.2 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

13.3 CUSTOMIZATION OPTIONS

13.4 RELATED REPORTS

13.5 AUTHOR DETAILS

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