

Polyglycolic Acid Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Form (Fibre, Film, Others), By End-Use (Medical, Oil & Gas, Packaging, Others), By Region, and By Competition, 2019-2029F

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Abstracts

Global Polyglycolic Acid Market was valued at USD 5.11 billion in 2023 and is anticipated to grow in the forecast period with a CAGR of 9.88% through 2029. Polyglycolic Acid (PGA) is a synthetic polymer that finds applications in various industries, including medical, packaging, and industrial sectors. PGA, a biopolymer derived from renewable resources, possesses remarkable properties such as high tensile strength, biocompatibility, and excellent gas barrier properties. These characteristics make PGA an ideal choice for a wide range of applications including medical sutures, packaging materials, and the production of specialty fibers.

Key factors driving the growth of the global PGA market include the rising awareness regarding environmental sustainability, stringent regulations promoting the use of eco-friendly materials, and the growing preference for biodegradable products among consumers. Moreover, advancements in manufacturing processes and technology innovations have further propelled market expansion.

Regions such as North America and Europe are witnessing significant adoption of PGA owing to favorable regulatory policies and a strong emphasis on sustainability. The Asia-Pacific region is also emerging as a lucrative market for PGA due to rapid industrialization, increasing investments in healthcare infrastructure, and a burgeoning population.

Key Market Drivers

Growth in Biodegradability and Environmental Concerns

In an era dominated by environmental consciousness and sustainability, the Global Polyglycolic Acid (PGA) Market is experiencing a significant upswing. The biodegradability of PGA, coupled with growing environmental concerns, has positioned it as a key player in the quest for eco-friendly alternatives across various industries.

One of the primary environmental concerns is the alarming increase in plastic pollution. Traditional plastics persist in the environment for hundreds of years, contributing to pollution and harming ecosystems. The biodegradability of PGA offers a sustainable solution, as it can break down into natural components, reducing the long-term environmental impact associated with conventional plastics.

The packaging industry is undergoing a transformative shift towards sustainable practices. As consumers become more eco-conscious, there is a growing demand for packaging materials that minimize environmental harm. PGA, being biodegradable, is gaining traction as a sustainable alternative, offering a solution to the environmental challenges posed by single-use plastics.

Governments worldwide are increasingly implementing stringent regulations to curb the use of non-biodegradable materials. This regulatory environment is conducive to the growth of biodegradable alternatives like PGA. Incentives and policies supporting the adoption of sustainable materials further bolster the market, as businesses align with these regulatory requirements.

Changing consumer preferences are steering industries towards more sustainable practices. As consumers become more informed about the environmental impact of their choices, there is a growing demand for products made from biodegradable materials. PGA, with its eco-friendly attributes, is well-positioned to meet this demand and is becoming a preferred choice for environmentally conscious consumers.

Surge in Medical Advancements and Healthcare Applications

The Global Polyglycolic Acid (PGA) Market is witnessing a surge in growth, propelled by significant advancements in the field of medicine and the expanding applications of PGA in healthcare. As medical technologies evolve, the demand for innovative and biocompatible materials like PGA is on the rise.

PGA is widely recognized for its excellent biocompatibility, making it an ideal material for medical applications. One of the primary uses of PGA in healthcare is in the production of absorbable sutures. The material's ability to be naturally absorbed by the body over time eliminates the need for additional surgical procedures to remove sutures, contributing to patient comfort and recovery.

With continuous advancements in surgical techniques, there is a growing demand for materials that can complement and enhance these procedures. PGA, with its versatile properties, is finding applications in various surgical products, including meshes, grafts, and other medical devices, driving its increased adoption in the healthcare sector.

The trend towards minimally invasive surgery (MIS) is on the rise, driven by its potential for quicker recovery times and reduced post-operative complications. PGA is well-suited for MIS applications, contributing to the development of minimally invasive medical devices and tools. This alignment with modern surgical practices is fostering the integration of PGA into the healthcare landscape.

PGA's biodegradability and compatibility with living tissues make it an attractive material for wound care and tissue engineering applications. It is being explored for use in scaffolds and other regenerative medicine approaches, showcasing its potential in promoting tissue healing and regeneration.

Expanding Applications of Polyglycolic Acid in Packaging

The Global Polyglycolic Acid (PGA) Market is experiencing a paradigm shift, driven by the expanding applications of PGA in the packaging industry. As the world increasingly gravitates towards sustainable and eco-friendly solutions, PGA has emerged as a game-changer in the quest for green packaging alternatives.

With environmental concerns at the forefront, there is a global push towards sustainable practices, especially in the packaging industry. PGA, being inherently biodegradable, offers an eco-friendly alternative to traditional plastics, which are notorious for their environmental impact. As consumers become more environmentally conscious, the demand for sustainable packaging solutions is on the rise.

PGA's biodegradability is a key factor driving its adoption in packaging. Unlike conventional plastics that persist in the environment for centuries, PGA breaks down into natural components, reducing the long-term ecological footprint associated with plastic waste. This feature positions PGA as a valuable material for companies seeking

to minimize their environmental impact.

PGA is compostable, providing an added advantage for companies looking to align with circular economy principles. Compostable packaging made from PGA can break down into organic matter, contributing to soil health. As composting gains traction as a waste management solution, the demand for compostable packaging materials like PGA continues to rise.

Governments and regulatory bodies globally are increasingly advocating for sustainable packaging practices. Incentives, regulations, and certifications supporting the use of biodegradable and compostable materials provide a favorable environment for the growth of PGA in the packaging sector. Compliance with these regulations positions PGA as a responsible and compliant choice for businesses.

Growing Consumer Preference for Sustainable Products

In an era marked by increasing environmental awareness, consumer preferences are undergoing a significant shift towards sustainability. This shift is significantly influencing purchasing decisions, especially in the realm of product packaging and materials. The Global Polyglycolic Acid (PGA) Market is experiencing a substantial boost as consumer preferences align with sustainable product choices.

Consumers today are more environmentally conscious than ever before. The detrimental effects of traditional plastics on the environment, particularly in terms of pollution and non-biodegradability, have led consumers to seek eco-friendly alternatives. Polyglycolic Acid, with its biodegradable nature, is emerging as a preferred choice for those who prioritize environmentally friendly products.

Packaging plays a pivotal role in consumer choices, and there is a growing preference for products packaged in materials that have a lower impact on the environment. PGA, being biodegradable, addresses the concerns associated with plastic waste and pollution. Consumer awareness of the benefits of biodegradable packaging is contributing to the increased adoption of PGA in various industries.

Brands that actively demonstrate a commitment to sustainability and environmental responsibility are gaining favor among consumers. Companies incorporating PGA in their products or packaging signal their dedication to reducing environmental impact. This, in turn, fosters brand loyalty and encourages consumers to make more sustainable choices.

The concept of a circular economy, where resources are used, reused, and recycled, is gaining traction. PGA, being compostable, aligns with this circular model. Consumers seeking products that contribute to a closed-loop system are increasingly drawn to PGA-based items, fostering the growth of the PGA market.

Key Market Challenges

Rise in Cost Considerations

One of the primary challenges faced by the PGA market is the cost associated with production. While PGA is biodegradable and offers unique properties, the manufacturing processes involved can be expensive. Cost-effective production methods and economies of scale are crucial to make PGA more competitive with traditional materials.

Growth in Competitive Landscape

The market for biodegradable polymers, including PGA, is becoming increasingly competitive. Other materials such as polylactic acid (PLA) and polyhydroxyalkanoates (PHA) are vying for a share of the eco-friendly materials market. Differentiating PGA from its competitors and demonstrating its unique advantages pose challenges for market players.

Limited Awareness and Education

Despite the growing interest in sustainable solutions, there is still a lack of awareness regarding PGA among consumers and businesses. Educating the market about the benefits and applications of PGA is essential to drive its adoption. A concerted effort to raise awareness and provide accurate information can help overcome this challenge.

Key Market Trends

Increased Focus on Sustainable Packaging

Sustainability is at the forefront of consumer and industry concerns. The demand for sustainable packaging solutions is expected to drive the adoption of PGA in the packaging industry. As more companies seek alternatives to traditional plastics, PGA's biodegradability and compostability make it a compelling choice for eco-friendly

packaging.

Growing Advancements in PGA Production Techniques

Ongoing research and development efforts are likely to lead to advancements in PGA production techniques. Innovations in polymerization methods, processing technologies, and raw material sourcing are anticipated to improve efficiency, reduce costs, and enhance the overall performance of PGA, making it more competitive in the market.

Expanded Applications of Polyglycolic Acid in Medical Devices

The medical sector is expected to witness an expanded use of PGA in various devices beyond absorbable sutures. As the demand for biocompatible materials rises, PGA's properties make it suitable for applications such as implants, drug delivery systems, and tissue engineering. The medical advancements driven by PGA are set to diversify its role in healthcare.

Segmental Insights

Form Insights

Based on the category of form, fibre is poised to assert its dominance as the preferred form in the global Polyglycolic Acid (PGA) market for several compelling reasons. Firstly, the inherent physical properties of PGA fibres, such as high tensile strength, excellent biodegradability, and versatility, make them an ideal choice for a wide range of applications. Industries such as medical, packaging, and textiles benefit significantly from the superior strength-to-weight ratio and durability offered by PGA fibres.

The increasing emphasis on sustainability and environmental consciousness in manufacturing processes has elevated the demand for biodegradable materials, with PGA fibres emerging as a standout solution. As companies strive to meet stringent environmental regulations and consumer preferences for eco-friendly products, PGA fibres' eco-conscious profile positions them as the forefront choice in the evolving landscape of materials. The adaptability of PGA fibres to various production methods further enhances their attractiveness, driving a shift towards their dominance in the global market.

End-Use Insights

Medical applications are poised to dominate as the primary end-use sector in the global Polyglycolic Acid (PGA) market for compelling reasons. The exceptional biocompatibility, absorbability, and mechanical strength of PGA make it an invaluable material in the medical field. PGA is widely utilized in surgical sutures and meshes due to its ability to degrade harmlessly within the body over time, eliminating the need for secondary removal surgeries. The medical sector is witnessing a surge in demand for advanced, biodegradable materials, driven by an increasing focus on patient welfare and the pursuit of sustainable healthcare practices.

With a proven track record of safety and effectiveness, PGA is gaining traction in various medical applications, including tissue engineering and drug delivery systems. As healthcare industries worldwide prioritize innovation and sustainability, the dominance of PGA in the medical end-use segment is poised to grow, marking a pivotal shift towards bioresorbable materials that enhance patient outcomes and align with evolving environmental standards.

Regional Insights

North America is positioned to assert its dominance as the leading region in the global Polyglycolic Acid (PGA) market in 2023 for several compelling reasons. The region's robust presence at the forefront of technological advancements and innovation, particularly in industries like healthcare and packaging, has fueled a substantial demand for PGA. The well-established healthcare sector in North America, with its emphasis on advanced medical technologies and procedures, is a key driver for the increased adoption of PGA in medical applications such as surgical sutures and drug delivery systems.

Stringent environmental regulations in the region have further accelerated the shift towards sustainable and biodegradable materials, aligning with PGA's eco-friendly profile. The presence of key market players, coupled with a proactive approach towards adopting novel materials, positions North America as a pivotal player in the global PGA market. A strong focus on research and development activities in the region ensures continuous advancements in PGA applications, reinforcing North America's dominance in shaping the trajectory of the global Polyglycolic Acid market.

Key Market Players

KUREHA CORPORATION

Corbion NV

BMG Inc

Teleflex Incorporated

Shenzhen Polymtek Biomaterial Co., Ltd.

Merck KGaA

Hitachi, Ltd.

Orion Sutures (India) Private Limited

DuPont de Nemours Inc

BASF SE

Report Scope:

In this report, the Global Polyglycolic Acid Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Polyglycolic Acid Market,By Form:

oFibre

oFilm

oOthers

Polyglycolic Acid Market,By End-Use:

oMedical

oOil Gas

oPackaging

oOthers

Polyglycolic Acid Market, By Region:

oNorth America

United States

Canada

Mexico

oEurope

Germany

United Kingdom

France

Italy

Spain

oAsia-Pacific

China

Japan

India

Australia

South Korea

oSouth America

Brazil

Argentina

Colombia

oMiddle East Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Polyglycolic Acid Market.

Available Customizations:

Global Polyglycolic Acid market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. VOICE OF CUSTOMER

5. GLOBAL POLYGLYCOLIC ACID MARKET OUTLOOK

- 5.1. Market Size Forecast
 - 5.1.1. By Value
- 5.2. Market Share Forecast
 - 5.2.1. By Form (Fibre, Film, Others)
 - 5.2.2. By End-Use (Medical, Oil Gas, Packaging, Others)
 - 5.2.3. By Region
 - 5.2.4. By Company (2023)

5.3. Market Map

5.3.1. By Form

5.3.2. By End-Use

5.3.3. By Region

6. NORTH AMERICA POLYGLYCOLIC ACID MARKET OUTLOOK

6.1. Market Size Forecast

6.1.1. By Value

6.2. Market Share Forecast

6.2.1. By Form (Fibre, Film, Others)

6.2.2. By End-Use (Medical, Oil Gas, Packaging, Others)

6.2.3. By Country

6.3. North America: Country Analysis

6.3.1. United States Polyglycolic Acid Market Outlook

6.3.1.1. Market Size Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share Forecast

6.3.1.2.1. By Form

6.3.1.2.2. By End-Use

6.3.2. Canada Polyglycolic Acid Market Outlook

6.3.2.1. Market Size Forecast

6.3.2.1.1. By Value

6.3.2.2. Market Share Forecast

6.3.2.2.1. By Form

6.3.2.2.2. By End-Use

6.3.3. Mexico Polyglycolic Acid Market Outlook

6.3.3.1. Market Size Forecast

6.3.3.1.1. By Value

6.3.3.2. Market Share Forecast

6.3.3.2.1. By Form

6.3.3.2.2. By End-Use

7. EUROPE POLYGLYCOLIC ACID MARKET OUTLOOK

7.1. Market Size Forecast

7.1.1. By Value

7.2. Market Share Forecast

7.2.1. By Form (Fibre, Film, Others)

7.2.2.By End-Use (Medical, Oil Gas, Packaging, Others)

7.2.3.By Country

7.3.Europe: Country Analysis

7.3.1.Germany Polyglycolic Acid Market Outlook

7.3.1.1.Market Size Forecast

7.3.1.1.1.By Value

7.3.1.2.Market Share Forecast

7.3.1.2.1.By Form

7.3.1.2.2.By End-Use

7.3.2.United Kingdom Polyglycolic Acid Market Outlook

7.3.2.1.Market Size Forecast

7.3.2.1.1.By Value

7.3.2.2.Market Share Forecast

7.3.2.2.1.By Form

7.3.2.2.2.By End-Use

7.3.3.France Polyglycolic Acid Market Outlook

7.3.3.1.Market Size Forecast

7.3.3.1.1.By Value

7.3.3.2.Market Share Forecast

7.3.3.2.1.By Form

7.3.3.2.2.By End-Use

7.3.4.Italy Polyglycolic Acid Market Outlook

7.3.4.1.Market Size Forecast

7.3.4.1.1.By Value

7.3.4.2.Market Share Forecast

7.3.4.2.1.By Form

7.3.4.2.2.By End-Use

7.3.5.Spain Polyglycolic Acid Market Outlook

7.3.5.1.Market Size Forecast

7.3.5.1.1.By Value

7.3.5.2.Market Share Forecast

7.3.5.2.1.By Form

7.3.5.2.2.By End-Use

8.ASIA-PACIFIC POLYGLYCOLIC ACID MARKET OUTLOOK

8.1.Market Size Forecast

8.1.1.By Value

8.2.Market Share Forecast

- 8.2.1. By Form (Fibre, Film, Others)
- 8.2.2. By End-Use (Medical, Oil Gas, Packaging, Others)
- 8.2.3. By Country

8.3. Asia-Pacific: Country Analysis

8.3.1. China Polyglycolic Acid Market Outlook

8.3.1.1. Market Size Forecast

8.3.1.1.1. By Value

8.3.1.2. Market Share Forecast

8.3.1.2.1. By Form

8.3.1.2.2. By End-Use

8.3.2. Japan Polyglycolic Acid Market Outlook

8.3.2.1. Market Size Forecast

8.3.2.1.1. By Value

8.3.2.2. Market Share Forecast

8.3.2.2.1. By Form

8.3.2.2.2. By End-Use

8.3.3. India Polyglycolic Acid Market Outlook

8.3.3.1. Market Size Forecast

8.3.3.1.1. By Value

8.3.3.2. Market Share Forecast

8.3.3.2.1. By Form

8.3.3.2.2. By End-Use

8.3.4. Australia Polyglycolic Acid Market Outlook

8.3.4.1. Market Size Forecast

8.3.4.1.1. By Value

8.3.4.2. Market Share Forecast

8.3.4.2.1. By Form

8.3.4.2.2. By End-Use

8.3.5. South Korea Polyglycolic Acid Market Outlook

8.3.5.1. Market Size Forecast

8.3.5.1.1. By Value

8.3.5.2. Market Share Forecast

8.3.5.2.1. By Form

8.3.5.2.2. By End-Use

9. SOUTH AMERICA POLYGLYCOLIC ACID MARKET OUTLOOK

9.1. Market Size Forecast

9.1.1. By Value

9.2. Market Share Forecast

9.2.1. By Form (Fibre, Film, Others)

9.2.2. By End-Use (Medical, Oil Gas, Packaging, Others)

9.2.3. By Country

9.3. South America: Country Analysis

9.3.1. Brazil Polyglycolic Acid Market Outlook

9.3.1.1. Market Size Forecast

9.3.1.1.1. By Value

9.3.1.2. Market Share Forecast

9.3.1.2.1. By Form

9.3.1.2.2. By End-Use

9.3.2. Argentina Polyglycolic Acid Market Outlook

9.3.2.1. Market Size Forecast

9.3.2.1.1. By Value

9.3.2.2. Market Share Forecast

9.3.2.2.1. By Form

9.3.2.2.2. By End-Use

9.3.3. Colombia Polyglycolic Acid Market Outlook

9.3.3.1. Market Size Forecast

9.3.3.1.1. By Value

9.3.3.2. Market Share Forecast

9.3.3.2.1. By Form

9.3.3.2.2. By End-Use

10. MIDDLE EAST AND AFRICA POLYGLYCOLIC ACID MARKET OUTLOOK

10.1. Market Size Forecast

10.1.1. By Value

10.2. Market Share Forecast

10.2.1. By Form (Fibre, Film, Others)

10.2.2. By End-Use (Medical, Oil Gas, Packaging, Others)

10.2.3. By Country

10.3. MEA: Country Analysis

10.3.1. South Africa Polyglycolic Acid Market Outlook

10.3.1.1. Market Size Forecast

10.3.1.1.1. By Value

10.3.1.2. Market Share Forecast

10.3.1.2.1. By Form

10.3.1.2.2. By End-Use

10.3.2.Saudi Arabia Polyglycolic Acid Market Outlook

10.3.2.1.Market Size Forecast

10.3.2.1.1.By Value

10.3.2.2.Market Share Forecast

10.3.2.2.1.By Form

10.3.2.2.2.By End-Use

10.3.3.UAE Polyglycolic Acid Market Outlook

10.3.3.1.Market Size Forecast

10.3.3.1.1.By Value

10.3.3.2.Market Share Forecast

10.3.3.2.1.By Form

10.3.3.2.2.By End-Use

11.MARKET DYNAMICS

11.1.Drivers

11.2.Challenges

12.MARKET TRENDS DEVELOPMENTS

12.1.Recent Development

12.2.Mergers Acquisitions

12.3.Product Launches

13.PORTER'S FIVE FORCES ANALYSIS

13.1.Competition in the Industry

13.2.Potential of New Entrants

13.3.Power of Suppliers

13.4.Power of Customers

13.5.Threat of Substitute Products

14.COMPETITIVE LANDSCAPE

14.1.KUREHA CORPORATION

14.1.1. Business Overview

14.1.2. Product Services

14.1.3. Recent Developments

14.1.4. Financials (As Reported)

- 14.1.5. Key Personnel
- 14.1.6. SWOT Analysis
- 14.2. Corbion NV
- 14.3. BMG Inc
- 14.4. Teleflex Incorporated
- 14.5. Shenzhen Polymtek Biomaterial Co., Ltd.
- 14.6. Merck KGaA
- 14.7. Hitachi, Ltd.
- 14.8. Orion Sutures (India) Private Limited
- 14.9. DuPont de Nemours Inc
- 14.10. BASF SE

15. STRATEGIC RECOMMENDATIONS

16. ABOUT US DISCLAIMER

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