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Bioplastics Market Research Report - Forecast till 2030

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Description:

Bioplastics Market Overview

Bioplastics Market is expected to grow USD 6.48 billion at a 10% during the forecast period, says market research future (MRFR). Environmental issues encouraging a paradigm change and increased demand for bioplastics in flexible packaging are two major factors driving the market examined. One of the primary drivers for the bioplastic industry is the environmental issue posed by excessive levels of greenhouse gas emissions in the atmosphere, as bioplastics serve to reduce reliance on fossil resources, reduce greenhouse gas (GHG) emissions, and boost resource efficiency. During the projected period, the flexible packaging application is expected to lead the global market in terms of volume. Alternatives to petroleum-based plastics and government regulations on existing plastics are anticipated to present future opportunities.

COVID-19 analysis

COVID-19 has a short history in the world but it has changed the course of world history and destiny far more than any other pandemic preceding it did. The virus is dangerous and somewhat contagious. It killed more than a few people, left many people seriously ill, and caused long-term health complications in those who recovered.

Governments realized this early on that's why they imposed lockdowns and quarantines in an attempt to stop the spread of the virus. They were temporary because they weren't very effective. In any case, most companies in a variety of industries suffered because they were either forced to halt production at least temporarily or dramatically scale back their operations.

The companies in the bio-plastics industry were no exception. The demand for all types of plastics products declined dramatically because people were staying in more often. They didn't want to be exposed to COVID-19. This disrupted the supply chain operations for most bio-plastics companies and it's taking them a long time to recover from this.

Competitive landscape

The bioplastics industry is highly competitive and somewhat fragmented. The reasons for this are:

- The lucrative market
- The high short and long-term CAGR
- The few barriers to entry

Companies are finding that they can remain profitable only if they create a sustainable competitive advantage through intensive research and development. This allows them to develop and market newer and better products before the competition can. They can enter new markets and solidify their positions in existing markets. They can also create a name for themselves in new and old markets. Finally, they can justify charging higher prices for these bioplastics.

Companies are also responding by merging their production of raw materials and their distribution operations. The result is the introduction of better quality products on the market. Incidentally, these companies also expand their regional presence.

Teijin Limited is a Japanese company. It has managed to remain profitable in the super-competitive bioplastics industry by creating a sustainable competitive advantage. The company has done so by investing heavily in research and development. This allowed it to develop and market superior and unique products.

List of companies

- Teijin Limited - Japan
- Toray Industries - Japan
- Toyota Tsusho - Japan
- M&G Chemicals - USA

- PTT Global Chemical Public Company Limited - Thailand
- Showa Denko KK - Japan
- Natureworks LLC - USA

Market dynamics

Drivers

The world is preferring to use products from renewable and natural sources. Bio-plastics are no exception. Many companies in many industries and the general public prefer to use plastics that have the same qualities as traditional plastics but decompose easily and are don't harm the environment when they do so.

Many companies prefer to use bio-plastics when they make plastic bags, packaging for various foodstuffs, disposable items, and general packaging. This is also a major bio-based chemicals market growth driver.

Opportunities

Many companies in the bio-plastics industry are seeing that the market is lucrative. They are investing heavily in research and development in the attempt to develop better quality bio-plastics that are friendlier for the environment.

Restraints

What's holding back growth in the bioplastics industry is that bio-plastics tend to be more expensive. Therefore, a lot of companies in many industries can't afford them.

Challenges

One of the biggest challenges that companies in the bioplastics industry face lies in continuing to make superior bioplastics products at lower price points that end users can afford. They also have to educate the general global public on the many benefits of bioplastics.

Cumulative growth analysis

The CAGR for the global bioplastics industry is 10%. The overall bioplastics market value is projected to be USD 11.68 billion by 2027.

Technology analysis

Newer advancements in technology have made it possible for plastics manufacturers to make plastics out of natural and renewable crops like sugarcane, corn, and vegetable oil. This is making it possible for companies to make friendlier plastics that last longer and don't release harsh and dangerous chemicals into the ground as they decompose. With the advent of newer technologies, the bioplastic market is expecting to see a huge growth in the upcoming years as per the mentioned forecasted data in the report.

Segment overview

By type

The global bioplastics industry can be grouped into the following sub-segments based on type:

- Biodegradable plastics
 - Starch blends
 - PBS
 - PBAT
 - Polyhydroxyalkanoate
 - Polylactic acid
 - Others
- Partially degradable bioplastics
 - PA
 - PE
 - PET
 - Others

Partially degradable plastics are popular because they are made from natural ingredients. Therefore, they decompose safely into the ground. Many companies in the film, carry bags, sheets, and other industries use this type of plastic.

By application

The global bioplastics industry can be grouped into the following sub-segments based on application:

- Flexible packaging
- Rigid packaging
- Textile
- Horticulture
- Agriculture
- Automotive
- Consumer goods
- Electronics
- Construction
- Building
- Others

Regional analysis

The global bioplastics industry can be grouped into the following regions:

- Asia-Pacific
- North America
- The European Union
- Latin America
- The Middle East
- Africa

The European Union had the greatest bioplastics market share in 2019 at 33.7%. This was because the European Union has strict standards regarding the production and usage of plastics. It also has a large concentration of bioplastic companies.

The European Union as a whole has passed many laws and rules that make it much harder for companies and individuals to use plastics that have to be thrown away after only one use. Most companies in the European Union are also investing much more in the technologies that are needed to make bioplastics. These factors are also driving growth in this region. The European masses, in general, are aware of the bad effects that plastics have on the environment as they decompose and they are taking steps to try to discourage the production and usage of traditional plastics as much as possible.

The Asia-Pacific region had a bioplastics industry share of 34.4% in 2018. This made it the region with the largest market share and size for that year. There were many factors that accounted for this. They were:

- Lower production and labor costs
- Fast industrialization and urbanization
- Growing awareness of bioplastics, their many uses, and their many benefits.

The North American region has the third-highest bioplastics market. What accounts for this is the passage of new laws and legislation that makes using traditional plastics illegal.

The Latin American, Middle Eastern, and African markets are trailing in terms of market growth and share largely because of a lack of awareness of the many benefits of bioplastics.

Recent developments

- **March 2022:** A research team led by Jingjing Li and Yawei Liu (Chinese Academy of Sciences, Changchun, China), as well as Bo Wei (First Medical Center of PLA General Hospital), has published a new method for producing protein-based plastics that are easily processable, biodegradable, and biocompatible, as well as having favorable mechanical properties, in the journal *Angewandte Chemie*. The qualities of the revolutionary bioplastics market can be customized to meet specific requirements. To accomplish so, they created two lysine-rich proteins and grew them in bacterial cultures: "ELP" is a polypeptide that looks like elastin, a connective tissue protein. It lacks distinct folding, resulting in hardness and flexibility.
- **February 2022:** RMIT University develops a groundbreaking material that repels dirt and liquids, similar to a lotus leaf, but breaks down swiftly once in soil. The new bioplastic, according to RMIT PhD researcher Mehran Ghasemlou, who is also the lead author of the paper published in *Science of the Total Environment*, is appropriate

for fresh food and takeaway packaging. To disintegrate, the bulk of biodegradable or compostable polymers require industrial processes and high temperatures. Trials have shown that the new bioplastic decomposes naturally and quickly in soil without the need for industrial intervention.

Genpak recently partnered with another company to make biodegradable food containers. **Athletica** recently partnered with another company to market green plastics. **Coca-Cola** recently marketed a new biodegradable plastic bottle for its Coke products.

Report overview

The CAGR for the bioplastics industry is projected to be 10% by 2027. The bioplastics market value is expected to be USD 11.68 billion by then! New advancements in technology have made it possible for companies to make plastic products out of naturally grown materials. Because they are environmentally friendly, more and more people around the world are preferring to use them every year. This is because people are becoming more aware of how sensitive the environment is and the pressing need to protect it.

What is also a major factor is the fact that governments around the world are becoming stricter regarding the ways in which companies are allowed to manufacture and use plastics. They are also severely restricting the chemicals that companies can use to make these plastics - hence the increased production, marketing, and usage of bioplastics.

The European Union has the greatest bioplastics market share. This is because most European governments are becoming much stricter about the processes that companies can use to make plastic products. They are also becoming much stricter in terms of the materials that these companies can use to make these plastics.

The Asia-Pacific region has the second-highest bioplastics market share. It has the highest bioplastics market growth rate of all of the regions in the world. There are many factors for this. One is because the masses in most Asia-Pacific nations are becoming better educated. They are becoming more aware of the environment and hence, more sensitive to it. These masses prefer to use products that are safer for the environment.

Table of Content:

Contents
Table of Contents
1 Executive Summary
2 Market Introduction
2.1 Market Definition
2.2 Scope of the Study
2.3 List of Assumptions
2.4 Markets Structure
3 Market Research Methodology
3.1 Research Process
3.2 Primary Research
3.3 Secondary Research
3.4 Market Size Estimation
3.5 Forecast Model
4 Market Dynamics of Global Bioplastics Market
4.1 Introduction
4.2 Drivers
4.3 Restraints
4.4 Opportunities
4.5 Challenges
4.6 Trends/Technology
5 Market Factor Analysis of Global Bioplastics Market
5.1 Supply Chain Analysis
5.1.1 Raw Material Suppliers
5.1.2 Manufacturers/Producers
5.1.3 Distributors/Retailers/Wholesalers/E-Commerce
5.1.4 End User
5.2 Porter's Five Forces Analysis
5.2.1 Threat of New Entrants
5.2.2 Bargaining Power of Buyers
5.2.3 Bargaining Power of Suppliers
5.2.4 Threat of Substitutes
5.2.5 Intensity of Competitive Rivalry
6. Global Bioplastics Market, by Type
6.1 Introduction
6.2 Biodegradable
6.2.1 Market Estimates & Forecast, 2019–2027
6.2.2 Market Estimates & Forecast, by Region, 2019–2027
6.3 non-biodegradable
6.3.1 Market Estimates & Forecast, 2019–2027
6.3.2 Market Estimates & Forecast, by Region, 2019–2027
7. Global Bioplastics Market, by Application
7.1 Introduction
7.2 Rigid Packaging
7.2.1 Market Estimates & Forecast, 2019–2027
7.2.2 Market Estimates & Forecast, by Region, 2019–2027
7.3 Flexible Packaging
7.3.1 Market Estimates & Forecast, 2019–2027
7.3.2 Market Estimates & Forecast, by Region, 2019–2027
7.4 Textile

- 7.4.1 Market Estimates & Forecast, 2019–2027
- 7.4.2 Market Estimates & Forecast, by Region, 2019–2027
- 7.5 Agriculture and Horticulture
 - 7.5.1 Market Estimates & Forecast, 2019–2027
 - 7.5.2 Market Estimates & Forecast, by Region, 2019–2027
- 7.6 Consumer Goods
 - 7.6.1 Market Estimates & Forecast, 2019–2027
 - 7.6.2 Market Estimates & Forecast, by Region, 2019–2027
- 7.7 Automotive
 - 7.7.1 Market Estimates & Forecast, 2019–2027
 - 7.7.2 Market Estimates & Forecast, by Region, 2019–2027
- 7.8 Electronics
 - 7.8.1 Market Estimates & Forecast, 2019–2027
 - 7.8.2 Market Estimates & Forecast, by Region, 2019–2027
- 7.9 Building and Construction
 - 7.9.1 Market Estimates & Forecast, 2019–2027
 - 7.9.2 Market Estimates & Forecast, by Region, 2019–2027
- 7.10 Others
 - 7.10.1 Market Estimates & Forecast, 2019–2027
 - 7.10.2 Market Estimates & Forecast, by Region, 2019–2027
- 8. Global Bioplastics Market, by Region
 - 8.1 Introduction
 - 8.2 North America
 - 8.2.1 Market Estimates & Forecast, 2019–2027
 - 8.2.2 Market Estimates & Forecast, by Type, 2019–2027
 - 8.2.3 Market Estimates & Forecast, by Application, 2019–2027
 - 8.2.4 US
 - 8.2.4.1 Market Estimates & Forecast, 2019–2027
 - 8.2.4.2 Market Estimates & Forecast, by Type, 2019–2027
 - 8.2.4.3 Market Estimates & Forecast, by Application, 2019–2027
 - 8.2.5 Canada
 - 8.2.5.1 Market Estimates & Forecast, 2019–2027
 - 8.2.5.2 Market Estimates & Forecast, by Type, 2019–2027
 - 8.2.5.3 Market Estimates & Forecast, by Application, 2019–2027
 - 8.3 Europe
 - 8.3.1 Market Estimates & Forecast, 2019–2027
 - 8.3.2 Market Estimates & Forecast, by Type, 2019–2027
 - 8.3.3 Market Estimates & Forecast, by Application, 2019–2027
 - 8.3.4 Germany
 - 8.3.4.1 Market Estimates & Forecast, 2019–2027
 - 8.3.4.2 Market Estimates & Forecast, by Type, 2019–2027
 - 8.3.4.3 Market Estimates & Forecast, by Application, 2019–2027
 - 8.3.5 France
 - 8.3.5.1 Market Estimates & Forecast, 2019–2027
 - 8.3.5.2 Market Estimates & Forecast, by Type, 2019–2027
 - 8.3.5.3 Market Estimates & Forecast, by Application, 2019–2027
 - 8.3.6 Italy
 - 8.3.6.1 Market Estimates & Forecast, 2019–2027
 - 8.3.6.2 Market Estimates & Forecast, by Type, 2019–2027
 - 8.3.6.3 Market Estimates & Forecast, by Application, 2019–2027
 - 8.3.7 Spain
 - 8.3.7.1 Market Estimates & Forecast, 2019–2027
 - 8.3.7.2 Market Estimates & Forecast, by Type, 2019–2027
 - 8.3.7.3 Market Estimates & Forecast, by Application, 2019–2027
 - 8.3.8 UK
 - 8.3.8.1 Market Estimates & Forecast, 2019–2027
 - 8.3.8.2 Market Estimates & Forecast, by Type, 2019–2027
 - 8.3.8.3 Market Estimates & Forecast, by Application, 2019–2027
 - 8.3.9 Russia
 - 8.3.9.1 Market Estimates & Forecast, 2019–2027
 - 8.3.9.2 Market Estimates & Forecast, by Type, 2019–2027
 - 8.3.9.3 Market Estimates & Forecast, by Application, 2019–2027
 - 8.3.10 Poland
 - 8.3.10.1 Market Estimates & Forecast, 2019–2027
 - 8.3.10.2 Market Estimates & Forecast, by Type, 2019–2027
 - 8.3.10.3 Market Estimates & Forecast, by Application, 2019–2027
 - 8.3.11 Rest of Europe
 - 8.3.11.1 Market Estimates & Forecast, 2019–2027
 - 8.3.11.2 Market Estimates & Forecast, by Type, 2019–2027
 - 8.3.11.3 Market Estimates & Forecast, by Application, 2019–2027
 - 8.4 Asia-Pacific
 - 8.4.1 Market Estimates & Forecast, 2019–2027
 - 8.4.2 Market Estimates & Forecast, by Type, 2019–2027
 - 8.4.3 Market Estimates & Forecast, by Application, 2019–2027
 - 8.4.4 China
 - 8.4.4.1 Market Estimates & Forecast, 2019–2027
 - 8.4.4.2 Market Estimates & Forecast, by Type, 2019–2027

8.4.4.3 Market Estimates & Forecast, by Application, 2019–2027	
8.4.5 India	
8.4.5.1 Market Estimates & Forecast, 2019–2027	
8.4.5.2 Market Estimates & Forecast, by Type, 2019–2027	
8.4.5.3 Market Estimates & Forecast, by Application, 2019–2027	
8.4.6 Japan	
8.4.6.1 Market Estimates & Forecast, 2019–2027	
8.4.6.2 Market Estimates & Forecast, by Type, 2019–2027	
8.4.6.3 Market Estimates & Forecast, by Application, 2019–2027	
8.4.7 Australia & New Zealand	
8.4.7.1 Market Estimates & Forecast, 2019–2027	
8.4.7.2 Market Estimates & Forecast, by Type, 2019–2027	
8.4.7.3 Market Estimates & Forecast, by Application, 2019–2027	
8.4.8 Rest of Asia-Pacific	
8.4.8.1 Market Estimates & Forecast, 2019–2027	
8.4.8.2 Market Estimates & Forecast, by Type, 2019–2027	
8.4.8.3 Market Estimates & Forecast, by Application, 2019–2027	
8.5 Middle East & Africa	
8.5.1 Market Estimates & Forecast, 2019–2027	
8.5.2 Market Estimates & Forecast, by Type, 2019–2027	
8.5.3 Market Estimates & Forecast, by Application, 2019–2027	
8.5.4 GCC	
8.5.4.1 Market Estimates & Forecast, 2019–2027	
8.5.4.2 Market Estimates & Forecast, by Type, 2019–2027	
8.5.4.3 Market Estimates & Forecast, by Application, 2019–2027	
8.5.5 Israel	
8.5.5.1 Market Estimates & Forecast, 2019–2027	
8.5.5.2 Market Estimates & Forecast, by Type, 2019–2027	
8.5.5.3 Market Estimates & Forecast, by Application, 2019–2027	
8.5.6 North Africa	
8.5.6.1 Market Estimates & Forecast, 2019–2027	
8.5.6.2 Market Estimates & Forecast, by Type, 2019–2027	
8.5.6.3 Market Estimates & Forecast, by Application, 2019–2027	
8.5.7 Turkey	
8.5.7.1 Market Estimates & Forecast, 2019–2027	
8.5.7.2 Market Estimates & Forecast, by Type, 2019–2027	
8.5.7.3 Market Estimates & Forecast, by Application, 2019–2027	
8.5.8 Rest of Middle East & Africa	
8.5.8.1 Market Estimates & Forecast, 2019–2027	
8.5.8.2 Market Estimates & Forecast, by Type, 2019–2027	
8.5.8.3 Market Estimates & Forecast, by Application, 2019–2027	
8.6 Latin America	
8.6.1 Market Estimates & Forecast, 2019–2027	
8.6.2 Market Estimates & Forecast, by Type, 2019–2027	
8.6.3 Market Estimates & Forecast, by Application, 2019–2027	
8.6.4 Brazil	
8.6.4.1 Market Estimates & Forecast, 2019–2027	
8.6.4.2 Market Estimates & Forecast, by Type, 2019–2027	
8.6.4.3 Market Estimates & Forecast, by Application, 2019–2027	
8.6.5 Argentina	
8.6.5.1 Market Estimates & Forecast, 2019–2027	
8.6.5.2 Market Estimates & Forecast, by Type, 2019–2027	
8.6.5.3 Market Estimates & Forecast, by Application, 2019–2027	
8.6.6 Mexico	
8.6.6.1 Market Estimates & Forecast, 2019–2027	
8.6.6.2 Market Estimates & Forecast, by Type, 2019–2027	
8.6.6.3 Market Estimates & Forecast, by Application, 2019–2027	
8.6.7 Rest of Latin America	
8.6.7.1 Market Estimates & Forecast, 2019–2027	
8.6.7.2 Market Estimates & Forecast, by Type, 2019–2027	
8.6.7.3 Market Estimates & Forecast, by Application, 2019–2027	
9. Company Landscape	
9.1 Introduction	
9.2 Market Strategy	
9.3 Key Development Analysis (Expansion/Merger & Acquisitions/Joint Venture/New Product Development/Agreement/Investment)	
10. Company Profiles	
10.1 Braskem	
10.1.1 Company Overview	
10.1.2 Financial Updates	
10.1.3 Product/Business Segment Overview	
10.1.4 Strategy	
10.1.5 Key Developments	
10.1.6 SWOT Analysis	
10.2 Total Corbion PLA	
10.2.1 Company Overview	
10.2.2 Financial Updates	

10.2.3	Product/Business Segment Overview
10.2.4	Strategy
10.2.5	Key Developments
10.2.6	SWOT Analysis
10.3	NatureWorks
10.3.1	Company Overview
10.3.2	Financial Updates
10.3.3	Product/Business Segment Overview
10.3.4	Strategy
10.3.5	Key Developments
10.3.6	SWOT Analysis
10.4	Bio-On
10.4.1	Company Overview
10.4.2	Financial Updates
10.4.3	Product/Business Segment Overview
10.4.4	Strategy
10.4.5	Key Developments
10.4.6	SWOT Analysis
10.5	Novamont
10.5.1	Company Overview
10.5.2	Financial Updates
10.5.3	Product/Business Segment Overview
10.5.4	Strategy
10.5.5	Key Developments
10.5.6	SWOT Analysis
10.6	Toray Industries
10.6.1	Company Overview
10.6.2	Financial Updates
10.6.3	Product/Business Segment Overview
10.6.4	Strategy
10.6.5	Key Developments
10.6.6	SWOT Analysis
10.7	Plantic Technologies
10.7.1	Company Overview
10.7.2	Financial Updates
10.7.3	Product/Business Segment Overview
10.7.4	Strategy
10.7.5	Key Developments
10.7.6	SWOT Analysis
10.8	BASF SE
10.8.1	Company Overview
10.8.2	Financial Updates
10.8.3	Product/Business Segment Overview
10.8.4	Strategy
10.8.5	Key Developments
10.8.6	SWOT Analysis
10.9	Biome Bioplastics
10.9.1	Company Overview
10.9.2	Financial Updates
10.9.3	Product/Business Segment Overview
10.9.4	Strategy
10.9.5	Key Developments
10.9.6	SWOT Analysis
10.10	Mitsubishi Chemical Corporation
10.10.1	Company Overview
10.10.2	Financial Updates
10.10.3	Product/Business Segment Overview
10.10.4	Strategy
10.10.5	Key Developments
10.10.6	SWOT Analysis
11.	Conclusion
LIST OF TABLES	

Table 1	Global Bioplastics Market: by Region, 2019–2027
Table 2	North America: Bioplastics Market, by Country, 2019–2027
Table 3	Europe: Bioplastics Market, by Country, 2019–2027
Table 4	Asia-Pacific: Bioplastics Market. by Country, 2019–2027
Table 5	Middle East & Africa: Bioplastics Market, by Country, 2019–2027
Table 6	Latin America: Bioplastics Market, by Country, 2019–2027
Table 7	Global Bioplastics Type Market, by Regions, 2019–2027
Table 8	North America: Bioplastics Type Market, by Country, 2019–2027
Table 9	Europe: Bioplastics Type Market, by Country, 2019–2027
Table10	Asia-Pacific: Bioplastics Type Market, by Country, 2019–2027
Table11	Middle East & Africa: Bioplastics Type Market, by Country, 2019–2027
Table12	Latin America: Bioplastics Type Market, by Country, 2019–2027
Table 13	Global Bioplastics Application Market, by Regions, 2019–2027
Table14	North America: Bioplastics Application Market, by Country, 2019–2027

Table15 Europe: Bioplastics Application Market, by Country, 2019–2027
Table16 Asia-Pacific: Bioplastics Application Market, by Country, 2019–2027
Table17 Middle East & Africa: Bioplastics Application Market, by Country, 2019–2027
Table18 Latin America: Bioplastics by Application Market, by Country, 2019–2027
Table19 Global Type Market, by Region, 2019–2027
Table20 Global Application Market, by Region, 2019–2027
Table21 North America: Bioplastics Market, by Country, 2019–2027
Table22 North America: Bioplastics Market, by Type, 2019–2027
Table23 North America: Bioplastics Market, by Application, 2019–2027
Table24 Europe: Bioplastics Market, by Country, 2019–2027
Table25 Europe: Bioplastics Market, by Type, 2019–2027
Table26 Europe: Bioplastics Market, by Application, 2019–2027
Table27 Asia-Pacific: Bioplastics Market, by Country, 2019–2027
Table28 Asia-Pacific: Bioplastics Market, by Type, 2019–2027
Table29 Asia-Pacific: Bioplastics Market, by Application, 2019–2027
Table30 Middle East & Africa: Bioplastics Market, by Country, 2019–2027
Table31 Middle East & Africa: Bioplastics Market, by Type, 2019–2027
Table32 Middle East & Africa: Bioplastics Market, by Application, 2019–2027
Table33 Latin America: Bioplastics Market, by Country, 2019–2027
Table34 Latin America: Bioplastics Market, by Type, 2019–2027
Table35 Latin America: Bioplastics Market, by Application, 2019–2027

LIST OF FIGURES

FIGURE 1 Global Bioplastics Market Segmentation
FIGURE 2 Forecast Research Methodology
FIGURE 3 Five Forces Analysis of Global Bioplastics Market
FIGURE 4 Value Chain of Global Bioplastics Market
FIGURE 5 Share of Global Bioplastics Market in 2019, by Country
FIGURE 6 Global Bioplastics Market, 2019–2027,
FIGURE 7 Global Bioplastics Market Size, by Type, 2019
FIGURE 8 Share of Global Bioplastics Market, by Type, 2019–2027
FIGURE 9 Global Bioplastics Market Size, by Application, 2019
FIGURE10 Share of Global Bioplastics Market, by Application, 2019–2027