

Bioplastics - A Global Market Overview

Market Report | 2025-02-05 | 298 pages | Industry Experts

AVAILABLE LICENSES:

- Single user licence (PDF) \$4500.00
- Enterprise Electronic (PDF) \$7200.00

Report description:

Global Bioplastics Market Trends and Outlook

Bioplastic are biodegradable polymers that are made from renewable sources, such as cellulose, corn, sugarcane, potato, wheat, rice and vegetable oil, in contrast to conventional plastics, which are derived from fossil fuels, such as petroleum or natural gas. These polymers have the capacity to reduce carbon dioxide emissions by 30-70% and eventually help in cutting down the level of carbon footprint from the environment at least by 42%. As compared to the conventional plastics, Bioplastics need 65% less energy during production. There has also been a paradigm shift towards replacing conventional plastics with biomass-based plastics by manufacturers due to their immense potential of being used in various applications, including packaging, electronic components, textiles, furniture and automotive parts.

Biodegradable and Non-Biodegradable Bioplastics are two primary categories of Bioplastics. Biodegradable Bioplastics are those that can be broken down into water, carbon dioxide and biomass with the help of living organisms, such as microbes. Some of the common types include Polybutylene Adipate Terephthalate (PBAT), Polybutylene Succinate (PBS), Polyhydroxyalkanoates (PHA), Polylactic Acid (PLA), Starch Blends and Other Biodegradable Bioplastics [Incl. Polycaprolactone (PCL) & Poly(lactide-co-glycolide) (PLGA)]. Non-Biodegradable Bioplastics are the ones derived from renewable sources, which are generally used in industrial applications, owing to their durability and strength rather than their biodegradability. Bio-Polyamides (Bio-PA), Bio-Polyethylene (Bio-PE), Bio-Polyethylene Terephthalate (Bio-PET) and Other Non-Biodegradable Bioplastics [Incl. Bio-Polypropylene (Bio-PP); Bio-Polyethylene Furanoate (Bio-PEF)] are few examples of non-biodegradable plastics.

The global volume demand for Bioplastics is projected to reach 5.9 million tons by 2030 at a CAGR of 16.9% over 2024-2030. During the similar period, the value market for Bioplastics is likely to maintain a CAGR of 21% in standing at a projected US\$44.3 billion by 2030 from an estimated US\$14.1 billion in 2024 driven by increased awareness on environmental issues in order to mitigate carbon footprints, availability of sustainable options to conventional plastics, stringent rules and regulations implemented by governments for reducing plastic waste. Bioplastics forming lucrative substitutes for regular plastics due to fluctuating petroleum prices and high investments in research & development for developing versatile Bioplastics for wider applications. In addition, prohibition of single-use non-biodegradable plastics in developed and emerging economies, growing demand of Bioplastics in packaging industry and extensive use of biodegradable polymers in enhancing quality of soil are further factors that are propelling demand for them.

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Bioplastics Regional Market Analysis

With regard to region, the global market for Bioplastics is led by Europe, the primary reasons for which include its dominance in consumption of the product, being a crucial hub for research & development, thriving automotive sector, growing demand for bio-based packaging materials from regional manufacturers and stringent environmental legislations, along with consumer concern for the environment. In addition, bioplastics are extensively used in various applications, including bottles, shopping bags, loose packaging and films for agricultural mulch. They are also widely accepted by both, consumers and end-use industries, such as packaging, textiles, consumer goods, automotive & transportation and healthcare. However, Asia-Pacific is expected to witness the fastest growth in demand for Bioplastics over the analysis period, owing to strict government regulations on curbing the use of plastic bags to facilitate to combat global warming, significant production capabilities, increasing demand due to growing population, inexpensive raw materials and labour and wider utilization among the major end-users, such as packaging, consumer goods, textiles, healthcare and automotive & transportation.

Bioplastics Market Analysis by Type

Among Biodegradable and Non-Biodegradable Bioplastics, the global demand for the former is anticipated to be the larger, owing to substantial demand from various end-users, such as textiles, packaging, consumer goods and agriculture & horticulture because of their versatility in terms of performance and sustainability. Increasing concerns about detrimental effects of plastic pollution on environment and human health and stringent regulations aimed at banning single-use plastics along with incentivizing investments in using biodegradable options would further stimulate the market. On the other hand, Non-Biodegradable Bioplastics also have significant use in automotive, food packaging and consumer goods industries. Their unmatched resilience, low production costs and wide range of uses, along with their natural resistance to deterioration, provide a long shelf life for products, making them essential in sectors, such as manufacturing and construction.

Bioplastics Market Analysis by Application

In terms of application, the global demand for Bioplastics is the largest for Packaging, due to their extensive use in the form of sheets & films to package a wide range of food & drink, household care and personal care products. The growing crisis with regard to disposal and management of plastic waste and consumer demands for eco-friendly packaging are compelling manufacturers to use Bioplastics as alternatives. However, the application of these materials in the Automotive & Transportation industry is anticipated to be the fastest growing, owing to their remarkable strength-to-weight ratio, durability, resistance to corrosion and self-heating qualities, enabling them to become more and more crucial for use in this sector. Reducing vehicular weight to enhance fuel efficiency, without compromising on performance, has for long been a priority issue for auto manufacturers, where Bioplastics are coming to their assistance. While the use of conventional plastics in automobiles for this purpose has been quite prevalent for some time now, the trend of shifting towards eco-friendlier Bioplastics has been catching on at a rapid pace and is likely to continue.

Bioplastics Market Report Scope

This global report on Bioplastics analyzes the global and regional markets based on type and application for the period 2021-2030 with projections from 2024 to 2030 in terms of volume in metric tons and value in US\$. In addition to providing profiles of major companies operating in this space, the latest corporate and industrial developments have been covered to offer a clear panorama of how and where the market is progressing.

Key Metrics

Historical Period: 2021-2023

Base Year: 2024

Forecast Period: 2024-2030

Units: Value market in US\$

Companies Mentioned: 50+

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Bioplastics Market by Geographic Region

- North America (The United States, Canada and Mexico)
- Europe (France, Germany, Italy, Russia, Spain, The United Kingdom and Rest of Europe)
- Asia-Pacific (China, Japan, India, South Korea and Rest of Asia-Pacific)
- South America (Argentina, Brazil and Rest of South America)
- Middle East & Africa

Bioplastics Market by Type

- Biodegradable
 - o□Polybutylene Adipate Terephthalate (PBAT)
 - o□Polybutylene Succinate (PBS)
 - o□Polyhydroxyalkanoates (PHA)
 - o□Polylactic Acid (PLA)
 - o□Starch Blends
 - o□Other Biodegradable Bioplastics [Incl. Polycaprolactone (PCL) & Poly(lactide-co-glycolide) (PLGA)]
- Non-Biodegradable
 - o□Bio-Polyamides (Bio-PA)
 - o□Bio-Polyethylene (Bio-PE)
 - o□Bio-Polyethylene Terephthalate (Bio-PET)
 - o□Other Non-Biodegradable Bioplastics [Incl. Bio-Polypropylene (Bio-PP) & Bio-Polyethylene Furanoate (Bio-PEF)]

Bioplastics Market by Application

- Agriculture & Horticulture
- Automotive & Transportation
- Building & Construction
- Consumer Goods
- Electrical & Electronics
- Packaging
 - o□Flexible Packaging
 - o□Rigid Packaging
- Textiles
- Other Applications (Incl. Adhesives & Coatings)

Table of Contents:

PART A: GLOBAL MARKET PERSPECTIVE

1. Introduction

- Bioplastics Outline
- Bioplastics Defined
- Bioplastic Types
 - o□Biodegradable
 - Polybutylene Adipate Terephthalate (PBAT)
 - Polybutylene Succinate (PBS)
 - Polyhydroxyalkanoates (PHA)
 - Polylactic Acid (PLA)
 - Starch Blends

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- Other Biodegradable Bioplastics
 - o□Non-Biodegradable
 - Bio-Polyamides (Bio-PA)
 - Bio-Polyethylene (Bio-PE)
 - Bio-Polyethylene Terephthalate (Bio-PET)
 - Other Non-Biodegradable Bioplastics
- Bioplastics End-Use Applications
 - o□Agriculture & Horticulture
 - o□Automotive & Transportation
 - o□Building & Construction
 - o□Consumer Goods
 - o□Electrical & Electronics
 - o□Packaging
 - o□Flexible Packaging
 - o□Rigid Packaging
 - o□Textiles
 - o□Other Applications
- 2. Key Market Trends
- 3. Key Global Players
 - Advance Biomaterials P Ltd
 - An Phat Holdings
 - Arkema SA
 - Avantium NV
 - BASF SE
 - Bioapply Polymers SL
 - Biofase SA de CV
 - Biome Bioplastics Ltd
 - Biotec Biologische Naturverpackungen GmbH & Co
 - Braskem SA
 - Cardia Bioplastics
 - Cargill, Inc.
 - CJ CheilJedang Corp
 - Corbion NV
 - Danimer Scientific, Inc.
 - DSM NV
 - E. I. du Pont de Nemours and Company
 - Eastman Chemical Co
 - Evonik Industries AG
 - FKuR Kunststoff GmbH
 - Futamura Group
 - Futerra SA
 - Green Dot Bioplastics, Inc.
 - Indorama Ventures Public Co Ltd
 - Innovia Films Limited
 - Kaneka Corp
 - Kaneka Takasago Ltd
 - Kingfa Sci Co Ltd

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- Kuraray Co Ltd
- LyondellBasell Industries Holdings BV
- M&G Chemicals
- Mitsubishi Chemical Corp
- NatureWorks LLC
- Novamont SpA
- Plantic Technologies Ltd
- Polymateria Limited
- PTT Global Chemical Public Co Ltd
- PTT MCC Biochem Co Ltd.
- Rodenburg Biopolymers BV
- Roquette Fr?res
- RTP Co
- SABIC
- Showa Denko K.K.
- Solvay SA
- SUPLA (Jiangsu Supla Bioplastics Co Ltd)
- Synbra Holding BV
- Techno Polymer Co Ltd
- Teijin Ltd
- Teknor Apex
- Toray Industries, Inc.
- Total Corbion PLAIR
- TotalEnergies Corbion PLA
- Toyota Tsusho Corporation
- Trifilon AB
- Trinseo SA
- Yield10 Bioscience (Metabolix)

4. Key Business & Product Trends

5. Global Market Overview

- Global Bioplastics Market Overview by Type

o□Biodegradable

- Polylactic Acid (PLA)
- Polyhydroxyalkanoates (PHA)
- Starch Blends
- Poly(Butylene Adipate-Co-Terephthalate) (PBAT)
- Polybutylene Succinate (PBS)
- Other Biodegradable Bioplastics

o□Non-Biodegradable

- Bio-Polyamides (Bio-PA)
- Bio-Polyethene (Bio-PE)
- Bio-Polyethylene Terephthalate (Bio-PET)
- Other Non-Biodegradable Bioplastics

- Global Bioplastics Market Overview by Applications

o□Agriculture & Horticulture

o□Automotive & Transportation

o□Building & Construction

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- o□Consumer Goods
- o□Electrical & Electronics
- o□Packaging
 - Flexible Packaging
 - Rigid Packaging
- o□Textiles
- o□Other Applications

PART B: REGIONAL MARKET PERSPECTIVE

- Global Bioplastics Market Overview by Geographic Region

REGIONAL MARKET OVERVIEW

6. North America

- North American Bioplastics Market Overview by Geographic Region
- North American Bioplastics Market Overview by Type
- North American Bioplastics Market Overview by Application
- Country-wise Analysis of North American Bioplastics Market
 - o□The United States
 - United States Bioplastics Market Overview by Type
 - United States Bioplastics Market Overview by Application
 - o□Canada
 - Canadian Bioplastics Market Overview by Type
 - Canadian Bioplastics Market Overview by Application
 - o□Mexico
 - Mexican Bioplastics Market Overview by Type
 - Mexican Bioplastics Market Overview by Application

7. Europe

- European Bioplastics Market Overview by Geographic Region
- European Bioplastics Market Overview by Type
- European Bioplastics Market Overview by Application
- Country-wise Analysis of European Bioplastics Market
 - o□France
 - French Bioplastics Market Overview by Type
 - French Bioplastics Market Overview by Application
 - o□Germany
 - German Bioplastics Market Overview by Type
 - German Bioplastics Market Overview by Application
 - o□Italy
 - Italian Bioplastics Market Overview by Type
 - Italian Bioplastics Market Overview by Application
 - o□Russia
 - Russian Bioplastics Market Overview by Type
 - Russian Bioplastics Market Overview by Application
 - o□Spain
 - Spanish Bioplastics Market Overview by Type
 - Spanish Bioplastics Market Overview by Application
 - o□The United Kingdom
 - United Kingdom Bioplastics Market Overview by Type
 - United Kingdom Bioplastics Market Overview by Application

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

o Rest of Europe

- Rest of Europe Bioplastics Market Overview by Type
- Rest of Europe Bioplastics Market Overview by Application

8. Asia-Pacific

- Asia-Pacific Bioplastics Market Overview by Geographic Region
- Asia-Pacific Bioplastics Market Overview by Type
- Asia-Pacific Bioplastics Market Overview by Application
- Country-wise Analysis of Asia-Pacific Bioplastics Market

o China

- Chinese Bioplastics Market Overview by Type
- Chinese Bioplastics Market Overview by Application

o India

- Indian Bioplastics Market Overview by Type
- Indian Bioplastics Market Overview by Application

o Japan

- Japanese Bioplastics Market Overview by Type
- Japanese Bioplastics Market Overview by Application

o South Korea

- South Korean Bioplastics Market Overview by Type
- South Korean Bioplastics Market Overview by Application

o Rest of Asia-Pacific

- Rest of Asia-Pacific Bioplastics Market Overview by Type
- Rest of Asia-Pacific Bioplastics Market Overview by Application

9. South America

- South American Bioplastics Market Overview by Geographic Region
- South American Bioplastics Market Overview by Type
- South American Bioplastics Market Overview by Application
- Country-wise Analysis of South American Bioplastics Market

o Argentina

- Argentine Bioplastics Market Overview by Type
- Argentine Bioplastics Market Overview by Application

o Brazil

- Brazilian Bioplastics Market Overview by Type
- Brazilian Bioplastics Market Overview by Application

o Rest of South America

- Rest of South American Bioplastics Market Overview by Type
- Rest of South American Bioplastics Market Overview by Application

10. Middle East & Africa

- Middle East & Africa Bioplastics Market Overview by Type
- Middle East & Africa Bioplastics Market Overview by Application

PART C: GUIDE TO THE INDUSTRY

PART D: ANNEXURE

1. RESEARCH METHODOLOGY

2. FEEDBACK

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Bioplastics - A Global Market Overview

Market Report | 2025-02-05 | 298 pages | Industry Experts

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single user licence (PDF)	\$4500.00
	Enterprise Electronic (PDF)	\$7200.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-02-22"/>
		Signature	<input type="text"/>

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com