

Global Biodegradable Plastic Resin Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Biodegradable Plastic Resin market size is expected to reach \$ 9766 million by 2032, rising at a market growth of 8.0% CAGR during the forecast period (2026-2032).

In 2025, global Biodegradable Plastic Resin production reached approximately 2,350 K tons, with an average global market price of around 2,350 US\$/ton.

Biodegradable Plastic Resin is a type of polymer material that can be completely decomposed into harmless substances (such as water, carbon dioxide, and organic matter) by microorganisms (bacteria, fungi, etc.) in natural environments (soil, water, or composting conditions) within a certain period, without causing long-term environmental pollution. Unlike traditional non-degradable plastic resins (such as polyethylene, polypropylene), it is usually derived from renewable resources (e.g., corn starch, sugarcane, cassava) or petrochemical raw materials modified with biodegradable additives, and its degradation process is controllable and in line with environmental protection standards. It retains the basic processing and use properties of conventional plastics (such as moldability, toughness, and durability) and can be processed into various products such as packaging materials, tableware, agricultural mulch, and disposable products, serving as a key solution to address white pollution and promote sustainable development.

The demand for Biodegradable Plastic Resin is driven by the global tightening of environmental protection policies (such as bans or restrictions on non-degradable plastics in many countries), the growing public awareness of environmental protection, and the increasing demand for eco-friendly products from industries such as packaging, catering, and agriculture. With the gradual phase-out of non-degradable plastics in

disposable scenarios, both enterprises and governments are actively promoting the adoption of biodegradable alternatives, creating a strong market demand. Business opportunities lie in strengthening R&D to optimize product performance (such as improving heat resistance, toughness, and degradation rate) and reduce production costs, expanding the source of raw materials to ensure supply stability, and developing segmented products for different application scenarios (e.g., high-temperature resistant resins for food packaging, durable resins for agricultural mulch). Additionally, cooperating with downstream manufacturers, packaging enterprises, and government departments to promote policy-driven demand, and tapping into emerging markets with rising environmental protection needs, can further enhance market competitiveness and seize the growth dividend of the global biodegradable materials industry.

This report studies the global Biodegradable Plastic Resin production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Biodegradable Plastic Resin total production and demand, 2021-2032, (Kilotons)

Global Biodegradable Plastic Resin total production value, 2021-2032, (USD Million)

Global Biodegradable Plastic Resin production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Biodegradable Plastic Resin consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Biodegradable Plastic Resin domestic production, consumption, key domestic manufacturers and share

Global Biodegradable Plastic Resin production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Biodegradable Plastic Resin production by Biodegradation Rate, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Biodegradable Plastic Resin production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Biodegradable Plastic Resin market based on the following parameters - company overview, production, value, price, gross margin,

product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include BASF, Green Dot Bioplastics, Minima Technology, Solanyl Biopolymers, WILLEAP, ICBP, Ecomann Biotechnology, Green Science Alliance, BioLogiQ, Mitsubishi Chemical Group, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Biodegradable Plastic Resin market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) by manufacturer, by Biodegradation Rate, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Biodegradable Plastic Resin Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Biodegradable Plastic Resin Market, Segmentation by Biodegradation Rate:

Fast-Degradation Resin (180 Days)

Global Biodegradable Plastic Resin Market, Segmentation by Resin Type:

PLA Resin

PBAT Resin

PBS Resin

PHA Resin

Starch-Based Resin

Others

Global Biodegradable Plastic Resin Market, Segmentation by Processing Method:

Injection Molding Grade

Film Blowing Grade

Extrusion Grade

Coating Grade

Others

Global Biodegradable Plastic Resin Market, Segmentation by Application:

Packaging

Foodservice Products

Agriculture

Consumer Goods

Medical & Healthcare

3D Printing

Textile & Fiber

Others

Companies Profiled:

BASF

Green Dot Bioplastics

Minima Technology

Solanyl Biopolymers

WILLEAP

ICBP

Ecomann Biotechnology

Green Science Alliance

BioLogiQ

Mitsubishi Chemical Group

SECOS Group

Torise Biomaterials

Novamont

NatureWorks

Kingfa Sci. & Tech.

Danimer Scientific

CJ Biomaterials

FKuR Kunststoff

Biome Bioplastics

Zhejiang Hisun Biomaterials

Anhui Fengyuan Group

Xinjiang Blue Ridge Tunhe

Kaneka Corporation

TianAn Biologic Materials

TeChuang Biotechnology

Key Questions Answered:

1. How big is the global Biodegradable Plastic Resin market?
2. What is the demand of the global Biodegradable Plastic Resin market?
3. What is the year over year growth of the global Biodegradable Plastic Resin market?
4. What is the production and production value of the global Biodegradable Plastic Resin market?
5. Who are the key producers in the global Biodegradable Plastic Resin market?
6. What are the growth factors driving the market demand?

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