

Global Coal-based Biodegradable Plastic Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Coal-based Biodegradable Plastic market size was valued at US\$ 220 million in 2025 and is forecast to a readjusted size of US\$ 400 million by 2032 with a CAGR of 9.0% during review period.

Coal-based Biodegradable Plastic refers to biodegradable polymer materials produced from coal chemical feedstocks such as syngas, ethylene glycol, 1,4-butanediol, glycolate esters and oxalate esters, and further processed through polymerization, copolymerization or compounding. The main product scope includes coal-based PGA, coal-based PBAT, coal-based PBS/PBSA and related biodegradable compound materials. These materials combine stable coal chemical feedstock supply, mature industrial chain support and biodegradable plastic application attributes, and are mainly used in packaging films and bags, disposable tableware and food packaging, agricultural mulch films, oilfield temporary plugging materials, injection-molded products and other industrial or specialty applications. Upstream raw materials mainly include coal, syngas, carbon monoxide, methanol, ethylene glycol, 1,4-butanediol, succinic acid, adipic acid, terephthalic acid, methyl glycolate, catalysts and additives. Major downstream customers include biodegradable material compounders, packaging material companies, agricultural film producers, oilfield chemical companies, disposable product manufacturers, injection molding companies and end-brand customers. On an ex-factory price basis, global Coal-based Biodegradable Plastic effective capacity in 2025 is estimated at about 210,000 tons, while global sales volume is estimated at about 72,638 tons, with an average ex-factory price of about USD 2,950 per ton. As this value chain is mainly concentrated in China, actual sales are still affected by the validation progress of downstream biodegradable packaging, agricultural films, oilfield

temporary plugging materials and specialty applications. The average industry gross margin is estimated at about 10%–24% in 2025, with relatively higher margins in high-barrier PGA, oilfield temporary plugging and specialty applications, and relatively lower margins in general packaging film and bag materials and compounded materials due to competition, operating rates and raw material price fluctuations.

The global Coal-based Biodegradable Plastic market is still in the stage of industrial ramp-up and application validation, with the core value chain and production capacity mainly concentrated in China. Overseas companies are more suitable as benchmark producers of related biodegradable plastics such as PGA and PBAT, rather than typical coal-based route manufacturers. The current market is mainly composed of coal-based PGA, coal-based BDO route PBAT/PBS, and related compounded materials, with demand mainly coming from packaging films and bags, disposable foodservice packaging, agricultural mulch films, oilfield temporary plugging materials, and specialty industrial materials. Compared with bio-based materials such as PLA and PHA, coal-based biodegradable plastics rely on coal chemical feedstocks, regional chemical parks, and integrated production facilities, giving them certain advantages in supply stability and scale-up potential. However, market acceptance still depends on product cost, processing compatibility, degradation certification, carbon footprint assessment, and end-use validation. Future market growth will mainly benefit from the extension of the coal chemical value chain into higher-value new materials, continued policy support for biodegradable materials, plastic substitution demand in packaging and agriculture, and rising demand for functional biodegradable materials in oilfield and industrial applications. Coal-based PGA has differentiated potential in high-barrier packaging, oilfield temporary plugging, and specialty materials, while coal-based PBAT and PBS materials are more suitable for blending with starch, PLA, calcium carbonate, and other systems for films, bags, disposable products, and selected injection-molded products. As polymerization processes, compounding formulations, and processing technologies continue to mature, coal-based biodegradable plastics are expected to move gradually from demonstration projects and policy-driven demand toward broader commercial application validation. Key market drivers include the industrial upgrading needs of Chinese coal chemical companies and downstream demand for biodegradable materials with controllable cost, stable supply, and clearly defined performance. For coal chemical companies, developing PGA, PBAT, PBS and related materials can increase the added value of basic chemicals such as syngas, ethylene glycol, BDO, glycolate esters, and succinic acid, while extending the value chain into resins, compounded materials, and end products. For downstream customers, if coal-based biodegradable plastics can achieve a balanced performance in cost, processability, mechanical properties, barrier properties, and degradability, they may gain substitution

opportunities in packaging, agriculture, oilfield, and industrial materials. Future competition will shift from capacity expansion alone toward cost control, material compounding capability, application development capability, and customer qualification capability. The main market barriers include uneven end-market demand, low capacity utilization, relatively high costs for some products, and strong competition from PLA, PBAT, PHA, bio-based PBS, and conventional plastic alternatives. The coal-based attribute has resource and cost advantages within China's coal chemical value chain, but it may face challenges in carbon footprint, environmental perception, and brand acceptance in international markets, especially for premium packaging and export-oriented customers. More complete degradation certification, low-carbon assessment, and life-cycle data will be needed. In addition, although PGA has clear performance differentiation, improvements in processing window, brittleness, cost reduction, and end-use validation still require time. Overall, the Coal-based Biodegradable Plastic market has medium- to long-term growth potential, while the near-term market will be characterized by steady volume growth, structural differentiation, and gradually clearer application scenarios.

This report is a detailed and comprehensive analysis for global Coal-based Biodegradable Plastic market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Coal-based Biodegradable Plastic market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Coal-based Biodegradable Plastic market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Coal-based Biodegradable Plastic market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Coal-based Biodegradable Plastic market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Coal-based Biodegradable Plastic

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Coal-based Biodegradable Plastic market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include China Energy Investment Corporation, Xinjiang Lanshan Tunhe Technology, Anhui Haoyuan Chemical Group, Shanghai Pujing Chemical, China National Chemical Engineering Group, Shanxi Jinhui Energy Group, Hubei Yihua Group, Kureha Corporation, BASF, etc.

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

Market Segmentation

Coal-based Biodegradable Plastic market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Coal-based PGA

Coal-based PBAT

Coal-based PBS and PBSA

Others

Market segment by Product Form

Coal-to-Syngas Route

Coal-based BDO Route

Coal-based Ethylene Glycol Route

Others

Market segment by Application

Packaging

Foodservice and Disposable Products

Agriculture

Industrial

Other

Major players covered

China Energy Investment Corporation

Xinjiang Lanshan Tunhe Technology

Anhui Haoyuan Chemical Group

Shanghai Pujing Chemical

China National Chemical Engineering Group

Shanxi Jinhui Energy Group

Hubei Yihua Group

Kureha Corporation

BASF

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Coal-based Biodegradable Plastic product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Coal-based Biodegradable Plastic, with price, sales quantity, revenue, and global market share of Coal-based Biodegradable Plastic from 2021 to 2026.

Chapter 3, the Coal-based Biodegradable Plastic competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Coal-based Biodegradable Plastic breakdown data are shown at the

regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Coal-based Biodegradable Plastic market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Coal-based Biodegradable Plastic.

Chapter 14 and 15, to describe Coal-based Biodegradable Plastic sales channel, distributors, customers, research findings and conclusion.

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