

Global Polypropylene Carbonate Resin 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 Polypropylene Carbonate Resin market size was valued at US\$ 257 million in 2025 and is forecast to a readjusted size of US\$ 413 million by 2032 with a CAGR of 6.8% during review period.

Polypropylene Carbonate Resin is an aliphatic polycarbonate resin produced through the catalytic copolymerization of carbon dioxide and propylene oxide. It is a carbon dioxide based biodegradable polymer material. The product is generally supplied as resin pellets, powder, or modified compounds, offering good transparency, flexibility, gas barrier properties, and biodegradability. However, its heat resistance, melt strength, and overall mechanical performance are relatively limited when used alone, so it is commonly modified through blending, toughening, chain extension, or filler reinforcement in industrial applications. Commercial production is mainly concentrated in China, South Korea, the United States, and Europe, with key applications in biodegradable packaging films, agricultural mulch films, disposable products, cushioning foams, adhesives, coatings, and modified polymer compounds.

In 2025, global Polypropylene Carbonate Resin production reached approximately 70,000 to 78,000 metric tons, with commercial supply still led by Chinese producers and a limited number of specialized overseas material companies. General purpose resin, film grade resin, and resin for blending and modification represented the main shipment forms. Influenced by propylene oxide cost, carbon dioxide utilization efficiency, catalyst systems, plant operating rates, and downstream biodegradable material demand, the average FOB price of global Polypropylene Carbonate Resin was approximately USD 3.0 to USD 3.7 per kg in 2025. High barrier film grades, food contact oriented grades, and small volume specialty grades were priced above general purpose resin.

The market opportunity for Polypropylene Carbonate Resin is driven by two major forces: the continued expansion of biodegradable material substitution and the industrialization of carbon dioxide utilization. Compared with conventional petrochemical plastics, Polypropylene Carbonate Resin uses carbon dioxide as one of its feedstocks, giving it a combined positioning as a low carbon material, biodegradable polymer, and barrier resin. Compared with several mainstream biodegradable plastics, it also offers differentiated advantages in transparency, flexibility, and gas barrier performance. As a result, it is becoming an important material option for companies developing greener solutions in packaging films, agricultural mulch films, disposable products, cushioning foams, adhesives, and coatings. With Chinese producers advancing large scale plants, catalyst optimization, and blending technologies, the industry is expected to further reduce unit costs and improve processability and cost performance in end use applications.

However, the market remains at an early stage of growth, and commercialization is constrained by cost, performance, and application certification. When used alone, Polypropylene Carbonate Resin has limitations in heat resistance and mechanical strength, so it is often compounded with polylactic acid, polybutylene adipate terephthalate, starch based materials, or other biodegradable resins. This increases the complexity of formulation development and processing validation. At the same time, fluctuations in propylene oxide prices, unstable plant operating rates, customer sensitivity to material cost, and differences in biodegradable and compostable material certification requirements across countries may affect the pace of market expansion. Over the next few years, growth is expected to concentrate in high barrier biodegradable packaging, biodegradable agricultural films, low carbon modified compounds, and functional adhesives. Companies that can balance cost, performance, and stable supply will be better positioned to build leadership in the Polypropylene Carbonate Resin market.

This report is a detailed and comprehensive analysis for global Polypropylene Carbonate Resin 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 Polypropylene Carbonate Resin market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Polypropylene Carbonate Resin market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Polypropylene Carbonate Resin market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Polypropylene Carbonate Resin market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), 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 Polypropylene Carbonate Resin

- 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 Polypropylene Carbonate Resin 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 Levima Greenrun (Shandong) New Materials Co., Ltd., Huafeng Group Co., Ltd., Jiangsu Jinlong-CAS Environmental Protection New Material Co., Ltd., Nanyang Zhongju Tianguan Low Carbon Technology Co., Ltd., Empower Materials Inc., Teknor Apex Company, SK Energy Co., Ltd., BASF SE, MyEco Group Ltd, Polymer Source Inc., etc.

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

Market Segmentation

Polypropylene Carbonate Resin 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

Pellets

Powder

Others

Market segment by Processing Technology

Film Extrusion

Compounding Extrusion

Injection Molding

Others

Market segment by Grade

General Purpose Grade

Film Grade

Binder Grade

Others

Market segment by Performance

Biodegradable Grade

High Barrier Grade

Toughened Grade

Others

Market segment by Application

Packaging Industry

Agriculture Industry

Electronics and Technical Components

Others

Major players covered

Levima Greenrun (Shandong) New Materials Co., Ltd.

Huafeng Group Co., Ltd.

Jiangsu Jinlong-CAS Environmental Protection New Material Co., Ltd.

Nanyang Zhongju Tianguan Low Carbon Technology Co., Ltd.

Empower Materials Inc.

Teknor Apex Company

SK Energy Co., Ltd.

BASF SE

MyEco Group Ltd

Polymer Source Inc.

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 Polypropylene Carbonate Resin product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Polypropylene Carbonate Resin, with price, sales quantity, revenue, and global market share of Polypropylene Carbonate Resin from 2021 to 2026.

Chapter 3, the Polypropylene Carbonate Resin competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Polypropylene Carbonate Resin 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 Polypropylene Carbonate Resin 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 Polypropylene Carbonate Resin.

Chapter 14 and 15, to describe Polypropylene Carbonate Resin sales channel, distributors, customers, research findings and conclusion.

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