

Global Polypropylene Carbonate Resin Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Polypropylene Carbonate Resin market size is expected to reach \$ 413 million by 2032, rising at a market growth of 6.8% CAGR during the forecast period (2026-2032).

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 studies the global Polypropylene Carbonate Resin production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Polypropylene Carbonate 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 Polypropylene Carbonate Resin that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Polypropylene Carbonate Resin total production and demand, 2021-2032, (Tons)

Global Polypropylene Carbonate Resin total production value, 2021-2032, (USD Million)

Global Polypropylene Carbonate Resin production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Polypropylene Carbonate Resin consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Polypropylene Carbonate Resin domestic production, consumption, key domestic manufacturers and share

Global Polypropylene Carbonate Resin production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Polypropylene Carbonate Resin production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Polypropylene Carbonate Resin production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Polypropylene Carbonate 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 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.

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

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, 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 Polypropylene Carbonate Resin Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Polypropylene Carbonate Resin Market, Segmentation by Type:

Pellets

Powder

Others

Global Polypropylene Carbonate Resin Market, Segmentation by Processing Technology:

Film Extrusion

Compounding Extrusion

Injection Molding

Others

Global Polypropylene Carbonate Resin Market, Segmentation by Grade:

General Purpose Grade

Film Grade

Binder Grade

Others

Global Polypropylene Carbonate Resin Market, Segmentation by Performance:

Biodegradable Grade

High Barrier Grade

Toughened Grade

Others

Global Polypropylene Carbonate Resin Market, Segmentation by Application:

Packaging Industry

Agriculture Industry

Electronics and Technical Components

Others

Companies Profiled:

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.

Key Questions Answered:

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

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