

Global Polypropylene Carbonate (PPC) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Polypropylene Carbonate (PPC) market size is expected to reach \$ 257 million by 2032, rising at a market growth of 14.6% CAGR during the forecast period (2026-2032).

Polypropylene Carbonate, also written as poly(propylene carbonate) and commonly abbreviated as PPC, is an aliphatic thermoplastic polycarbonate produced through the catalytic copolymerization of carbon dioxide and propylene oxide. The material is typically a clear or translucent amorphous solid, and its commercial forms can include resin pellets, films, solutions, and dispersions. PPC combines transparency, flexibility, barrier performance, clean thermal decomposition with very low residue, and biodegradation potential, which supports applications in packaging films, degradable materials, ceramic and metal powder binders, thick-film pastes, coatings, inks, and selected high-value functional materials. Current industrialization is concentrated mainly in China and the United States, where China is pushing forward ten-thousand-ton to fifty-thousand-ton projects while U.S. suppliers have already commercialized PPC in high-purity binder and specialty film applications.

In 2025, global Polypropylene Carbonate production reached approximately 18,000-28,000 metric tons, while mainstream ex-works or FOB-equivalent prices were generally in the range of USD 2,800-3,600 per ton.

Polypropylene Carbonate is moving from a carbon-utilization concept material toward a more clearly defined functional specialty polymer. Its appeal lies not only in the incorporation of carbon dioxide into the feedstock system, but also in the distinctive combination of transparency, flexibility, oxygen-barrier performance, clean burnout, and low-residue processing behavior. Public product information shows that PPC has

already entered real applications in high-purity technical-part binders, pastes, inks, coatings, and barrier films, while recent academic and industry reviews continue to identify packaging, biomedical materials, blends, modifications, and functional films as key future growth directions. For material suppliers, PPC is not positioned as a head-on replacement for mature commodity plastics such as polyethylene or polypropylene. Its real opportunity lies in differentiated use cases that require barrier performance, degradability, controlled decomposition, or specialty processing characteristics.

At the same time, commercial expansion remains constrained by both material limitations and industrialization pace. PPC still has a relatively narrow thermal-stability window, limited heat resistance, and insufficient dimensional stability, which means that many end uses require blending, modification, end-capping, or multilayer structural design to achieve practical processing and performance targets. In parallel, global policy for packaging and biodegradable materials is shifting from broad sustainability narratives toward stronger emphasis on recyclability, environmental benefit, and alignment with real end-of-life systems, with the European Union continuing to tighten requirements around packaging reduction, recyclable design, and the use boundaries of biodegradable plastics. Against this backdrop, future PPC demand is more likely to concentrate in barrier films, single-use films, packaging materials, clean-burn binders, and high-purity specialty materials, while competition will increasingly depend on the ability of suppliers to balance performance, cost, processing compatibility, and scalable supply.

This report studies the global Polypropylene Carbonate (PPC) production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Polypropylene Carbonate (PPC) total production and demand, 2021-2032, (MT)

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

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

Global Polypropylene Carbonate (PPC) consumption by region & country, CAGR,

2021-2032 & (MT)

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

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

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

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

This report profiles key players in the global Polypropylene Carbonate (PPC) 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 Empower Materials Inc., Levima Greentech (Shandong) Advanced Materials Co., Ltd., Tianjin Tianchen Green Energy Engineering Technology R&D Co., Ltd., Huafeng Group Co., Ltd., Inner Mongolia Mengxi High-Tech Group Co., Ltd., Bodadongfang New-type Chemical (Jilin) Co., Ltd., 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 (PPC) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MT) and average price (USD/MT) 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 (PPC) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Polypropylene Carbonate (PPC) Market, Segmentation by Type:

Injection Molding Grade

Food Contact Grade

Global Polypropylene Carbonate (PPC) Market, Segmentation by Processing Technology:

Global Polypropylene Carbonate (PPC) Market, Segmentation by Application:

Binder and Paste

Packaging and Film

Coating and Ink

Others

Companies Profiled:

Empower Materials Inc.

Levima Greentech (Shandong) Advanced Materials Co., Ltd.

Tianjin Tianchen Green Energy Engineering Technology R&D Co., Ltd.

Huafeng Group Co., Ltd.

Inner Mongolia Mengxi High-Tech Group Co., Ltd.

Bodadongfang New-type Chemical (Jilin) Co., Ltd.

Key Questions Answered:

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

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