

Global Propylene Carbonate Market Size Study by Form (Pellet, Aqueous, Film, Others), by Application (Solvent, Binders and Adhesives, Coatings, Lithium-ion Batteries, Textile Dyeing, Others), and Regional Forecasts 2022-2032

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Abstracts

The Global Propylene Carbonate Market is valued at approximately USD 0.45 billion in 2023 and is poised to reach USD 0.70 billion by 2032, growing at a steady compound annual growth rate (CAGR) of 5.05% during the forecast period. Propylene carbonate, a versatile chemical compound known for its high solvency and environmental compatibility, has emerged as a pivotal material across diverse industries. Its applications span from lithium-ion batteries to coatings, adhesives, and textile dyeing, making it indispensable in modern manufacturing processes. The rising adoption of eco-friendly and high-performance materials, driven by stringent environmental regulations, has significantly bolstered the demand for propylene carbonate in recent years.

The burgeoning demand for lithium-ion batteries in electric vehicles and consumer electronics is a major growth driver for the market. Propylene carbonate's superior dielectric properties and chemical stability make it an essential component in battery electrolytes, facilitating efficient energy storage and delivery. Additionally, its role as a solvent in coatings and adhesives underscores its importance in the automotive and construction sectors. However, challenges such as fluctuating raw material prices and limited regional availability could impede market expansion. Nevertheless, ongoing advancements in production technologies and the exploration of bio-based alternatives are anticipated to mitigate these challenges.

Regionally, Asia-Pacific dominates the Global Propylene Carbonate Market, with rapid industrialization and urbanization driving its growth. Countries like China, Japan, and

South Korea are key contributors, leveraging the compound's applications in electronics, automotive, and textiles. North America follows closely, fueled by robust investments in renewable energy and advanced materials. Meanwhile, Europe's market is driven by strict environmental regulations and the push for sustainable industrial practices. Emerging markets in Latin America and the Middle East & Africa are also gaining traction, supported by expanding infrastructure and increasing awareness of eco-friendly solutions.

Technological advancements are reshaping the propylene carbonate market landscape, with a strong focus on sustainability and efficiency. Manufacturers are investing in bio-based production techniques to reduce carbon footprints and align with global environmental goals. Additionally, innovations in application-specific formulations are enabling the compound to meet evolving industry requirements, from enhancing battery performance to improving the durability of coatings and adhesives.

Major market players included in this report are:

BASF SE

Huntsman Corporation

LyondellBasell Industries

Mitsubishi Chemical Corporation

Asahi Kasei Corporation

Empower Materials Inc.

Solvay S.A.

Daze Group

SK Innovation Co., Ltd.

Lonza Group AG

Shandong Shida Shenghua Chemical Group Co., Ltd.

Hengyang New Energy Co., Ltd.

Alfa Aesar

Tedia Company Inc.

Merck KGaA

The detailed segments and sub-segment of the market are explained below:

By Form:

Pellet

Aqueous

Film

Others

By Application:

Solvent

Binders and Adhesives

Coatings

Lithium-ion Batteries

Textile Dyeing

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia-Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Rest of Latin America

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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