

Report Information

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Propylene Carbonate Market Research Report - Global Forecast till 2030

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Description:

Global Propylene Carbonate Market Overview

The Propylene Carbonate Market Size was valued at USD 0.42 Billion in 2022. The Propylene Carbonate industry is projected to grow from USD 0.45 Billion in 2023 to USD 0.62 Billion by 2030, exhibiting a compound annual growth rate (CAGR) of 5.05% during the forecast period (2023 - 2030). Propylene carbonate is an organic compound obtained from propylene. It is used as a polar, aprotic solvent in paints & coatings and cosmetic & personal care products. Propylene carbonate is also used to remove carbon dioxide from natural gas and volatile organic compound (VOC) from paints & coatings.

Propylene Carbonate Market Overview

Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review

Propylene Carbonate Market Trends

- **Rising demand for lithium-ion batteries will boost the growth of the Market**

Propylene carbonate is used as a key solvent in the production of electrolytes for lithium-ion batteries. These batteries are widely used in various applications, including electric vehicles, portable electronics, and renewable energy systems. As the demand for these applications continues to grow, the demand for propylene carbonate is also expected to increase. Furthermore, the increasing focus on renewable energy and energy storage solutions is also expected to drive the demand for lithium-ion batteries, which in turn will fuel the demand for propylene carbonate. Manufacturers are also exploring new applications for lithium-ion batteries, such as grid-scale energy storage, which is expected to further boost the demand for propylene carbonate.

Propylene Carbonate Market Segment Insights

Propylene Carbonate Form Insights

The market segmentation, based on Form, includes Pellet, Aqueous, Film, and Others. The Film segment holds the majority share in 2022, contributing to the global Propylene Carbonate revenue. propylene carbonate is commonly used as a solvent for film-forming resins in various applications, including coatings, adhesives, and plastics. Propylene carbonate improves the solubility, stability, and adhesion properties of film-forming resins, making it an important component in the production of films for various industrial and commercial applications.

Propylene Carbonate Application Insights

Based on Application, the market segmentation includes Solvents, Binders and adhesives, Coatings, Lithium-ion batteries, Textile dyeing, and Others. The Lithium-ion batteries segment is the largest segment of the market. The growth of the segment is attributed to the increase in investment in electric vehicles and consumers' inclination towards electronic products, which is expected to drive the demand for lithium-ion batteries.

Figure 2: Propylene Carbonate Market, by Application, 2022 & 2030 (USD Million)

Propylene Carbonate Market, by Application, 2022 & 2030

Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review

Propylene Carbonate Regional Insights

By region, the study provides market insights into North America, Europe, Asia-Pacific, and the Rest of the World. Asia-Pacific accounted for the largest share of the Market in recent years. The region is home to some of the largest and fastest-growing economies in the world, such as China, India, and Japan, which have witnessed significant growth in various end-use industries, including automotive, electronics, and renewable energy. The rising demand for lithium-ion batteries and other energy storage solutions, coupled with the growth of the automotive and electronics industries, has led to a significant increase in the demand for propylene carbonate in the region. In addition, the increasing focus on environmental sustainability and the adoption of new regulations aimed at reducing greenhouse gas emissions have also contributed to the growth of the market in Asia-Pacific.

Figure 3: PROPYLENE CARBONATE MARKET SHARE BY REGION 2022 (%)

PROPYLENE CARBONATE MARKET SHARE BY REGION 2022

Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review

Propylene Carbonate Key Market Players & Competitive Insights

Major market players are spending a lot of money on R&D to increase their product lines, which will help the market grow even more. Market participants are also taking various strategic initiatives to grow their worldwide footprint, with key market developments such as new product launches, contractual agreements, mergers and acquisitions, increased investments, and collaboration with other organizations. Competitors in the Propylene Carbonate industry must offer cost-effective items to expand and survive in an increasingly competitive and rising market environment.

Manufacturing locally to cut operating costs is one of the main business tactics manufacturers use in the global Propylene Carbonate industry to benefit customers and expand the market sector. Major market players, including BASF, Shida Shenghua Chemical, Daze Group, Huntsman Corporation, and others, are attempting to increase market demand by funding R&D initiatives.

Shida Shenghua Chemical Co., Ltd. (SDSH) is a chemical manufacturing company based in China. SDSH specializes in the production and sale of organic chemical products, including chlorinated paraffin, chlorinated polyethylene, and muriatic acid. The company's products are widely used in the production of plastic, rubber, coatings, paints, and other chemical products. The company has a production capacity of 100,000 tons of chlorinated paraffin, 50,000 tons of chlorinated polyethylene, and 30,000 tons of muriatic acid per year. The company's products are sold both domestically and internationally, with major markets including Europe, America, and Southeast Asia.

Huntsman Company is a producer of unique organic chemical products. It works in four segments: polyurethanes, performance products, advanced materials, and textile effects. The firm provides polyurethane chemicals, performance goods such as amines and maleic anhydride, advanced materials such as epoxy, acrylic, and polyurethane-based polymer products, as well as textile chemicals, dyes, and inks. Its products are used in a variety of applications, including adhesives, aerospace, automotive, construction products, personal care, and hygiene, durable and non-durable consumer products, digital inks, electronics, insulation, medical, packaging, coatings and construction, power generation, refining, synthetic fiber, textile chemicals, and dye industries.

Key Companies in the Propylene Carbonate market include

- LyondellBasell Industries
- Shandong Depu Chemical
- BASF
- Empower Materials
- Shida Shenghua Chemical
- Daze Group
- Huntsman Corporation
- AVX Corporation
- MegaChem Ltd
- Hi-Tech Spring Chemical

Propylene Carbonate Industry Developments

July 2021: AVX Corporation introduced a new series of standard and custom supercapacitors based on propylene carbonate electrolyte technology, which has been demonstrated to be safe and effective in energy storage applications such as lithium-ion batteries.

August 2023: Eastman Chemical announced that it had signed a contract to supply propylene carbonate to Tesla for use in its electric vehicles. The contract is for a multi-year term and includes a commitment to purchase a significant amount of propylene carbonate.

Propylene Carbonate Market Segmentation

Propylene Carbonate Form Outlook

- Pellet
- Aqueous
- Film
- Others

Propylene Carbonate Application Outlook

- Solvent
- Binders and adhesives
- Coatings
- Lithium-ion batteries
- Textile dyeing
- Others

Propylene Carbonate Regional Outlook

- North America
 - US
 - Canada
- Europe
 - Germany
 - France
 - UK
 - Italy
 - Spain
 - Rest of Europe
- Asia-Pacific
 - China
 - Japan
 - India
 - Australia
 - South Korea
 - Australia
 - Rest of Asia-Pacific
- Rest of the World

- Middle East
- Africa
- Latin America

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