

Global Propylene Carbonate (PC) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Propylene Carbonate (PC) market size is expected to reach \$ 2780 million by 2032, rising at a market growth of 10.7% CAGR during the forecast period (2026-2032).

Propylene carbonate, a colorless to yellowish liquid with fruity odor, is a kind of VOC-exempt clear polar solvent having high boiling and flash points, a low order of toxicity and a mild ether-like odor. It is stable under most conditions and is not hygroscopic or corrosive. PC is particularly well suited for applications requiring a water white product or high purity. In 2025, global Propylene Carbonate production reached approximately 1833 K MT.

Propylene carbonate (PC) demand is increasingly driven by lithium-ion batteries, where it's used as a high-polarity solvent component in electrolyte systems (particularly in certain formulations and in legacy/consumer cells, and in some specialty electrolyte blends). The biggest macro driver here is the continued build-out of EVs, energy storage systems, and battery supply chains, which raises demand not only for volume but for battery-grade purity (tight moisture control, low metal ions, consistent impurity profile). PC also benefits from its performance properties—high dielectric constant, good solvating power for lithium salts, and a high boiling point—making it valuable in electrolyte design and in other high-performance solvent applications where stability and low volatility are important.

Outside batteries, PC demand is pulled by its role as a polar aprotic, low-volatility solvent in coatings, inks, adhesives, cleaners/strippers, and specialty formulations where users want strong solvency with a more favorable handling/VOC profile versus some traditional solvents. It's also used in electronics and chemical processing (as a

solvent for resins and as a medium for reactions/extractions), and in gas treatment applications where PC is used in certain physical absorption processes for acid gas removal (site-specific but important where installed). A further driver is the CO₂ utilization narrative: industrially, PC is commonly produced from propylene oxide + CO₂, so it can be positioned as a route that incorporates CO₂ feedstock, which can support adoption where customers are actively tracking carbon footprint and prefer solvents that help meet ESG or regulatory goals though economics and qualification still dominate buying decisions.

propylene carbonate typically behaves like a specialty/commodity hybrid. For industrial/technical grades, gross margins are often mid-teens to mid-20s (%), heavily influenced by propylene oxide costs, energy, and plant utilization. Battery-grade PC can support higher gross margins (often ~25-40%+) when supply is tight and producers have strong purification capability, quality systems, and long-term contracts.

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

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

Highlights and key features of the study

Global Propylene Carbonate (PC) total production and demand, 2021-2032, (K MT)

Global Propylene Carbonate (PC) total production value, 2021-2032, (USD Million)

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

Global Propylene Carbonate (PC) consumption by region & country, CAGR, 2021-2032 & (K MT)

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

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

Global Propylene Carbonate (PC) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

Global Propylene Carbonate (PC) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

This report profiles key players in the global Propylene Carbonate (PC) 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 BASF, Huntsman, LyondellBasell, Shida Shinghua Advanced Material, Shandong Daze Chemical Group, Shandong Depu Chemical, Dongying Hi-tech Spring Chemical, Linyi Evergreen Chemical, Shandong Feiyang Chemical, Shandong Lixing Advanced Material, 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 Propylene Carbonate (PC) market

Detailed Segmentation:

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Propylene Carbonate (PC) Market, Segmentation by Type:

Lithium Battery Grade

Industrial Grade

Global Propylene Carbonate (PC) Market, Segmentation by Feature:

Transesterification Method

Direct Method

Global Propylene Carbonate (PC) Market, Segmentation by Channel:

Direct Selling

Distribution

Global Propylene Carbonate (PC) Market, Segmentation by Application:

Dimethyl Carbonate

Lithium Battery

Industrial Solvent

Others

Companies Profiled:

BASF

Huntsman

LyondellBasell

Shida Shinghwa Advanced Material

Shandong Daze Chemical Group

Shandong Depu Chemical

Dongying Hi-tech Spring Chemical

Linyi Evergreen Chemical

Shandong Feiyang Chemical

Shandong Lixing Advanced Material

Liaoning Kong Lung Chemical

Shandong Longze Chemical

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

- 1.1 Propylene Carbonate (PC) Introduction
- 1.2 World Propylene Carbonate (PC) Supply & Forecast
 - 1.2.1 World Propylene Carbonate (PC) Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Propylene Carbonate (PC) Production (2021-2032)
 - 1.2.3 World Propylene Carbonate (PC) Pricing Trends (2021-2032)
- 1.3 World Propylene Carbonate (PC) Production by Region (Based on Production Site)
 - 1.3.1 World Propylene Carbonate (PC) Production Value by Region (2021-2032)
 - 1.3.2 World Propylene Carbonate (PC) Production by Region (2021-2032)
 - 1.3.3 World Propylene Carbonate (PC) Average Price by Region (2021-2032)
 - 1.3.4 China Propylene Carbonate (PC) Production (2021-2032)
 - 1.3.5 North America Propylene Carbonate (PC) Production (2021-2032)
 - 1.3.6 Europe Propylene Carbonate (PC) Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Propylene Carbonate (PC) Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Propylene Carbonate (PC) Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Propylene Carbonate (PC) Demand (2021-2032)
- 2.2 World Propylene Carbonate (PC) Consumption by Region
 - 2.2.1 World Propylene Carbonate (PC) Consumption by Region (2021-2026)
 - 2.2.2 World Propylene Carbonate (PC) Consumption Forecast by Region (2027-2032)
- 2.3 United States Propylene Carbonate (PC) Consumption (2021-2032)
- 2.4 China Propylene Carbonate (PC) Consumption (2021-2032)
- 2.5 Europe Propylene Carbonate (PC) Consumption (2021-2032)
- 2.6 Japan Propylene Carbonate (PC) Consumption (2021-2032)
- 2.7 South Korea Propylene Carbonate (PC) Consumption (2021-2032)
- 2.8 ASEAN Propylene Carbonate (PC) Consumption (2021-2032)
- 2.9 India Propylene Carbonate (PC) Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Propylene Carbonate (PC) Production Value by Manufacturer (2021-2026)
- 3.2 World Propylene Carbonate (PC) Production by Manufacturer (2021-2026)

3.3 World Propylene Carbonate (PC) Average Price by Manufacturer (2021-2026)

3.4 Propylene Carbonate (PC) Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Propylene Carbonate (PC) Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Propylene Carbonate (PC) in 2025

3.5.3 Global Concentration Ratios (CR8) for Propylene Carbonate (PC) in 2025

3.6 Propylene Carbonate (PC) Market: Overall Company Footprint Analysis

3.6.1 Propylene Carbonate (PC) Market: Region Footprint

3.6.2 Propylene Carbonate (PC) Market: Company Product Type Footprint

3.6.3 Propylene Carbonate (PC) Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Propylene Carbonate (PC) Production Value Comparison

4.1.1 United States VS China: Propylene Carbonate (PC) Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Propylene Carbonate (PC) Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Propylene Carbonate (PC) Production Comparison

4.2.1 United States VS China: Propylene Carbonate (PC) Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Propylene Carbonate (PC) Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Propylene Carbonate (PC) Consumption Comparison

4.3.1 United States VS China: Propylene Carbonate (PC) Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Propylene Carbonate (PC) Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Propylene Carbonate (PC) Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Propylene Carbonate (PC) Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Propylene Carbonate (PC) Production Value

(2021-2026)

4.4.3 United States Based Manufacturers Propylene Carbonate (PC) Production

(2021-2026)

4.5 China Based Propylene Carbonate (PC) Manufacturers and Market Share

4.5.1 China Based Propylene Carbonate (PC) Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Propylene Carbonate (PC) Production Value (2021-2026)

4.5.3 China Based Manufacturers Propylene Carbonate (PC) Production (2021-2026)

4.6 Rest of World Based Propylene Carbonate (PC) Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Propylene Carbonate (PC) Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Propylene Carbonate (PC) Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Propylene Carbonate (PC) Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Propylene Carbonate (PC) Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Lithium Battery Grade

5.2.2 Industrial Grade

5.3 Market Segment by Type

5.3.1 World Propylene Carbonate (PC) Production by Type (2021-2032)

5.3.2 World Propylene Carbonate (PC) Production Value by Type (2021-2032)

5.3.3 World Propylene Carbonate (PC) Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY FEATURE

6.1 World Propylene Carbonate (PC) Market Size Overview by Feature: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Feature

6.2.1 Transesterification Method

6.2.2 Direct Method

6.3 Market Segment by Feature

6.3.1 World Propylene Carbonate (PC) Production by Feature (2021-2032)

6.3.2 World Propylene Carbonate (PC) Production Value by Feature (2021-2032)

6.3.3 World Propylene Carbonate (PC) Average Price by Feature (2021-2032)

7 MARKET ANALYSIS BY CHANNEL

7.1 World Propylene Carbonate (PC) Market Size Overview by Channel: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Channel

7.2.1 Direct Selling

7.2.2 Distribution

7.3 Market Segment by Channel

7.3.1 World Propylene Carbonate (PC) Production by Channel (2021-2032)

7.3.2 World Propylene Carbonate (PC) Production Value by Channel (2021-2032)

7.3.3 World Propylene Carbonate (PC) Average Price by Channel (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Propylene Carbonate (PC) Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Dimethyl Carbonate

8.2.2 Lithium Battery

8.2.3 Industrial Solvent

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World Propylene Carbonate (PC) Production by Application (2021-2032)

8.3.2 World Propylene Carbonate (PC) Production Value by Application (2021-2032)

8.3.3 World Propylene Carbonate (PC) Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 BASF

9.1.1 BASF Details

9.1.2 BASF Major Business

9.1.3 BASF Propylene Carbonate (PC) Product and Services

9.1.4 BASF Propylene Carbonate (PC) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 BASF Recent Developments/Updates

9.1.6 BASF Competitive Strengths & Weaknesses

9.2 Huntsman

9.2.1 Huntsman Details

9.2.2 Huntsman Major Business

9.2.3 Huntsman Propylene Carbonate (PC) Product and Services

9.2.4 Huntsman Propylene Carbonate (PC) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Huntsman Recent Developments/Updates

9.2.6 Huntsman Competitive Strengths & Weaknesses

9.3 LyondellBasell

9.3.1 LyondellBasell Details

9.3.2 LyondellBasell Major Business

9.3.3 LyondellBasell Propylene Carbonate (PC) Product and Services

9.3.4 LyondellBasell Propylene Carbonate (PC) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 LyondellBasell Recent Developments/Updates

9.3.6 LyondellBasell Competitive Strengths & Weaknesses

9.4 Shida Shinghua Advanced Material

9.4.1 Shida Shinghua Advanced Material Details

9.4.2 Shida Shinghua Advanced Material Major Business

9.4.3 Shida Shinghua Advanced Material Propylene Carbonate (PC) Product and Services

9.4.4 Shida Shinghua Advanced Material Propylene Carbonate (PC) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Shida Shinghua Advanced Material Recent Developments/Updates

9.4.6 Shida Shinghua Advanced Material Competitive Strengths & Weaknesses

9.5 Shandong Daze Chemical Group

9.5.1 Shandong Daze Chemical Group Details

9.5.2 Shandong Daze Chemical Group Major Business

9.5.3 Shandong Daze Chemical Group Propylene Carbonate (PC) Product and Services

9.5.4 Shandong Daze Chemical Group Propylene Carbonate (PC) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Shandong Daze Chemical Group Recent Developments/Updates

9.5.6 Shandong Daze Chemical Group Competitive Strengths & Weaknesses

9.6 Shandong Depu Chemical

9.6.1 Shandong Depu Chemical Details

9.6.2 Shandong Depu Chemical Major Business

9.6.3 Shandong Depu Chemical Propylene Carbonate (PC) Product and Services

9.6.4 Shandong Depu Chemical Propylene Carbonate (PC) Production, Price, Value,

Gross Margin and Market Share (2021-2026)

9.6.5 Shandong Depu Chemical Recent Developments/Updates

9.6.6 Shandong Depu Chemical Competitive Strengths & Weaknesses

9.7 Dongying Hi-tech Spring Chemical

9.7.1 Dongying Hi-tech Spring Chemical Details

9.7.2 Dongying Hi-tech Spring Chemical Major Business

9.7.3 Dongying Hi-tech Spring Chemical Propylene Carbonate (PC) Product and Services

9.7.4 Dongying Hi-tech Spring Chemical Propylene Carbonate (PC) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Dongying Hi-tech Spring Chemical Recent Developments/Updates

9.7.6 Dongying Hi-tech Spring Chemical Competitive Strengths & Weaknesses

9.8 Linyi Evergreen Chemical

9.8.1 Linyi Evergreen Chemical Details

9.8.2 Linyi Evergreen Chemical Major Business

9.8.3 Linyi Evergreen Chemical Propylene Carbonate (PC) Product and Services

9.8.4 Linyi Evergreen Chemical Propylene Carbonate (PC) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Linyi Evergreen Chemical Recent Developments/Updates

9.8.6 Linyi Evergreen Chemical Competitive Strengths & Weaknesses

9.9 Shandong Feiyang Chemical

9.9.1 Shandong Feiyang Chemical Details

9.9.2 Shandong Feiyang Chemical Major Business

9.9.3 Shandong Feiyang Chemical Propylene Carbonate (PC) Product and Services

9.9.4 Shandong Feiyang Chemical Propylene Carbonate (PC) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Shandong Feiyang Chemical Recent Developments/Updates

9.9.6 Shandong Feiyang Chemical Competitive Strengths & Weaknesses

9.10 Shandong Lixing Advanced Material

9.10.1 Shandong Lixing Advanced Material Details

9.10.2 Shandong Lixing Advanced Material Major Business

9.10.3 Shandong Lixing Advanced Material Propylene Carbonate (PC) Product and Services

9.10.4 Shandong Lixing Advanced Material Propylene Carbonate (PC) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Shandong Lixing Advanced Material Recent Developments/Updates

9.10.6 Shandong Lixing Advanced Material Competitive Strengths & Weaknesses

9.11 Liaoning Kong Lung Chemical

9.11.1 Liaoning Kong Lung Chemical Details

- 9.11.2 Liaoning Kong Lung Chemical Major Business
- 9.11.3 Liaoning Kong Lung Chemical Propylene Carbonate (PC) Product and Services
- 9.11.4 Liaoning Kong Lung Chemical Propylene Carbonate (PC) Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 Liaoning Kong Lung Chemical Recent Developments/Updates
- 9.11.6 Liaoning Kong Lung Chemical Competitive Strengths & Weaknesses
- 9.12 Shandong Longze Chemical
 - 9.12.1 Shandong Longze Chemical Details
 - 9.12.2 Shandong Longze Chemical Major Business
 - 9.12.3 Shandong Longze Chemical Propylene Carbonate (PC) Product and Services
 - 9.12.4 Shandong Longze Chemical Propylene Carbonate (PC) Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Shandong Longze Chemical Recent Developments/Updates
 - 9.12.6 Shandong Longze Chemical Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Propylene Carbonate (PC) Industry Chain
- 10.2 Propylene Carbonate (PC) Upstream Analysis
 - 10.2.1 Propylene Carbonate (PC) Core Raw Materials
 - 10.2.2 Main Manufacturers of Propylene Carbonate (PC) Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Propylene Carbonate (PC) Production Mode
- 10.6 Propylene Carbonate (PC) Procurement Model
- 10.7 Propylene Carbonate (PC) Industry Sales Model and Sales Channels
 - 10.7.1 Propylene Carbonate (PC) Sales Model
 - 10.7.2 Propylene Carbonate (PC) Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Propylene Carbonate (PC) Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Propylene Carbonate (PC) Production Value by Region (2021-2026) & (USD Million)

Table 3. World Propylene Carbonate (PC) Production Value by Region (2027-2032) & (USD Million)

Table 4. World Propylene Carbonate (PC) Production Value Market Share by Region (2021-2026)

Table 5. World Propylene Carbonate (PC) Production Value Market Share by Region (2027-2032)

Table 6. World Propylene Carbonate (PC) Production by Region (2021-2026) & (K MT)

Table 7. World Propylene Carbonate (PC) Production by Region (2027-2032) & (K MT)

Table 8. World Propylene Carbonate (PC) Production Market Share by Region (2021-2026)

Table 9. World Propylene Carbonate (PC) Production Market Share by Region (2027-2032)

Table 10. World Propylene Carbonate (PC) Average Price by Region (2021-2026) & (US\$/MT)

Table 11. World Propylene Carbonate (PC) Average Price by Region (2027-2032) & (US\$/MT)

Table 12. Propylene Carbonate (PC) Major Market Trends

Table 13. World Propylene Carbonate (PC) Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K MT)

Table 14. World Propylene Carbonate (PC) Consumption by Region (2021-2026) & (K MT)

Table 15. World Propylene Carbonate (PC) Consumption Forecast by Region (2027-2032) & (K MT)

Table 16. World Propylene Carbonate (PC) Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Propylene Carbonate (PC) Producers in 2025

Table 18. World Propylene Carbonate (PC) Production by Manufacturer (2021-2026) & (K MT)

Table 19. Production Market Share of Key Propylene Carbonate (PC) Producers in 2025

Table 20. World Propylene Carbonate (PC) Average Price by Manufacturer (2021-2026) & (US\$/MT)

Table 21. Global Propylene Carbonate (PC) Company Evaluation Quadrant

Table 22. World Propylene Carbonate (PC) Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Propylene Carbonate (PC) Production Site of Key Manufacturer

Table 24. Propylene Carbonate (PC) Market: Company Product Type Footprint

Table 25. Propylene Carbonate (PC) Market: Company Product Application Footprint

Table 26. Propylene Carbonate (PC) Competitive Factors

Table 27. Propylene Carbonate (PC) New Entrant and Capacity Expansion Plans

Table 28. Propylene Carbonate (PC) Mergers & Acquisitions Activity

Table 29. United States VS China Propylene Carbonate (PC) Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Propylene Carbonate (PC) Production Comparison, (2021 & 2025 & 2032) & (K MT)

Table 31. United States VS China Propylene Carbonate (PC) Consumption Comparison, (2021 & 2025 & 2032) & (K MT)

Table 32. United States Based Propylene Carbonate (PC) Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Propylene Carbonate (PC) Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Propylene Carbonate (PC) Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Propylene Carbonate (PC) Production (2021-2026) & (K MT)

Table 36. United States Based Manufacturers Propylene Carbonate (PC) Production Market Share (2021-2026)

Table 37. China Based Propylene Carbonate (PC) Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Propylene Carbonate (PC) Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Propylene Carbonate (PC) Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Propylene Carbonate (PC) Production, (2021-2026) & (K MT)

Table 41. China Based Manufacturers Propylene Carbonate (PC) Production Market Share (2021-2026)

Table 42. Rest of World Based Propylene Carbonate (PC) Manufacturers, Headquarters

and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Propylene Carbonate (PC) Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Propylene Carbonate (PC) Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Propylene Carbonate (PC) Production, (2021-2026) & (K MT)

Table 46. Rest of World Based Manufacturers Propylene Carbonate (PC) Production Market Share (2021-2026)

Table 47. World Propylene Carbonate (PC) Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Propylene Carbonate (PC) Production by Type (2021-2026) & (K MT)

Table 49. World Propylene Carbonate (PC) Production by Type (2027-2032) & (K MT)

Table 50. World Propylene Carbonate (PC) Production Value by Type (2021-2026) & (USD Million)

Table 51. World Propylene Carbonate (PC) Production Value by Type (2027-2032) & (USD Million)

Table 52. World Propylene Carbonate (PC) Average Price by Type (2021-2026) & (US\$/MT)

Table 53. World Propylene Carbonate (PC) Average Price by Type (2027-2032) & (US\$/MT)

Table 54. World Propylene Carbonate (PC) Production Value by Feature, (USD Million), 2021 & 2025 & 2032

Table 55. World Propylene Carbonate (PC) Production by Feature (2021-2026) & (K MT)

Table 56. World Propylene Carbonate (PC) Production by Feature (2027-2032) & (K MT)

Table 57. World Propylene Carbonate (PC) Production Value by Feature (2021-2026) & (USD Million)

Table 58. World Propylene Carbonate (PC) Production Value by Feature (2027-2032) & (USD Million)

Table 59. World Propylene Carbonate (PC) Average Price by Feature (2021-2026) & (US\$/MT)

Table 60. World Propylene Carbonate (PC) Average Price by Feature (2027-2032) & (US\$/MT)

Table 61. World Propylene Carbonate (PC) Production Value by Channel, (USD Million), 2021 & 2025 & 2032

Table 62. World Propylene Carbonate (PC) Production by Channel (2021-2026) & (K MT)

Table 63. World Propylene Carbonate (PC) Production by Channel (2027-2032) & (K MT)

Table 64. World Propylene Carbonate (PC) Production Value by Channel (2021-2026) & (USD Million)

Table 65. World Propylene Carbonate (PC) Production Value by Channel (2027-2032) & (USD Million)

Table 66. World Propylene Carbonate (PC) Average Price by Channel (2021-2026) & (US\$/MT)

Table 67. World Propylene Carbonate (PC) Average Price by Channel (2027-2032) & (US\$/MT)

Table 68. World Propylene Carbonate (PC) Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Propylene Carbonate (PC) Production by Application (2021-2026) & (K MT)

Table 70. World Propylene Carbonate (PC) Production by Application (2027-2032) & (K MT)

Table 71. World Propylene Carbonate (PC) Production Value by Application (2021-2026) & (USD Million)

Table 72. World Propylene Carbonate (PC) Production Value by Application (2027-2032) & (USD Million)

Table 73. World Propylene Carbonate (PC) Average Price by Application (2021-2026) & (US\$/MT)

Table 74. World Propylene Carbonate (PC) Average Price by Application (2027-2032) & (US\$/MT)

Table 75. BASF Basic Information, Manufacturing Base and Competitors

Table 76. BASF Major Business

Table 77. BASF Propylene Carbonate (PC) Product and Services

Table 78. BASF Propylene Carbonate (PC) Production (K MT), Price (US\$/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. BASF Recent Developments/Updates

Table 80. BASF Competitive Strengths & Weaknesses

Table 81. Huntsman Basic Information, Manufacturing Base and Competitors

Table 82. Huntsman Major Business

Table 83. Huntsman Propylene Carbonate (PC) Product and Services

Table 84. Huntsman Propylene Carbonate (PC) Production (K MT), Price (US\$/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Huntsman Recent Developments/Updates

Table 86. Huntsman Competitive Strengths & Weaknesses

Table 87. LyondellBasell Basic Information, Manufacturing Base and Competitors

Table 88. LyondellBasell Major Business

Table 89. LyondellBasell Propylene Carbonate (PC) Product and Services

Table 90. LyondellBasell Propylene Carbonate (PC) Production (K MT), Price (US\$/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. LyondellBasell Recent Developments/Updates

Table 92. LyondellBasell Competitive Strengths & Weaknesses

Table 93. Shida Shinghua Advanced Material Basic Information, Manufacturing Base and Competitors

Table 94. Shida Shinghua Advanced Material Major Business

Table 95. Shida Shinghua Advanced Material Propylene Carbonate (PC) Product and Services

Table 96. Shida Shinghua Advanced Material Propylene Carbonate (PC) Production (K MT), Price (US\$/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Shida Shinghua Advanced Material Recent Developments/Updates

Table 98. Shida Shinghua Advanced Material Competitive Strengths & Weaknesses

Table 99. Shandong Daze Chemical Group Basic Information, Manufacturing Base and Competitors

Table 100. Shandong Daze Chemical Group Major Business

Table 101. Shandong Daze Chemical Group Propylene Carbonate (PC) Product and Services

Table 102. Shandong Daze Chemical Group Propylene Carbonate (PC) Production (K MT), Price (US\$/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Shandong Daze Chemical Group Recent Developments/Updates

Table 104. Shandong Daze Chemical Group Competitive Strengths & Weaknesses

Table 105. Shandong Depu Chemical Basic Information, Manufacturing Base and Competitors

Table 106. Shandong Depu Chemical Major Business

Table 107. Shandong Depu Chemical Propylene Carbonate (PC) Product and Services

Table 108. Shandong Depu Chemical Propylene Carbonate (PC) Production (K MT), Price (US\$/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Shandong Depu Chemical Recent Developments/Updates

Table 110. Shandong Depu Chemical Competitive Strengths & Weaknesses

Table 111. Dongying Hi-tech Spring Chemical Basic Information, Manufacturing Base and Competitors

Table 112. Dongying Hi-tech Spring Chemical Major Business

Table 113. Dongying Hi-tech Spring Chemical Propylene Carbonate (PC) Product and Services

Table 114. Dongying Hi-tech Spring Chemical Propylene Carbonate (PC) Production (K MT), Price (US\$/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Dongying Hi-tech Spring Chemical Recent Developments/Updates

Table 116. Dongying Hi-tech Spring Chemical Competitive Strengths & Weaknesses

Table 117. Linyi Evergreen Chemical Basic Information, Manufacturing Base and Competitors

Table 118. Linyi Evergreen Chemical Major Business

Table 119. Linyi Evergreen Chemical Propylene Carbonate (PC) Product and Services

Table 120. Linyi Evergreen Chemical Propylene Carbonate (PC) Production (K MT), Price (US\$/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Linyi Evergreen Chemical Recent Developments/Updates

Table 122. Linyi Evergreen Chemical Competitive Strengths & Weaknesses

Table 123. Shandong Feiyang Chemical Basic Information, Manufacturing Base and Competitors

Table 124. Shandong Feiyang Chemical Major Business

Table 125. Shandong Feiyang Chemical Propylene Carbonate (PC) Product and Services

Table 126. Shandong Feiyang Chemical Propylene Carbonate (PC) Production (K MT), Price (US\$/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Shandong Feiyang Chemical Recent Developments/Updates

Table 128. Shandong Feiyang Chemical Competitive Strengths & Weaknesses

Table 129. Shandong Lixing Advanced Material Basic Information, Manufacturing Base and Competitors

Table 130. Shandong Lixing Advanced Material Major Business

Table 131. Shandong Lixing Advanced Material Propylene Carbonate (PC) Product and Services

Table 132. Shandong Lixing Advanced Material Propylene Carbonate (PC) Production (K MT), Price (US\$/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Shandong Lixing Advanced Material Recent Developments/Updates

Table 134. Shandong Lixing Advanced Material Competitive Strengths & Weaknesses

Table 135. Liaoning Kong Lung Chemical Basic Information, Manufacturing Base and Competitors

Table 136. Liaoning Kong Lung Chemical Major Business

Table 137. Liaoning Kong Lung Chemical Propylene Carbonate (PC) Product and Services

Table 138. Liaoning Kong Lung Chemical Propylene Carbonate (PC) Production (K MT), Price (US\$/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Liaoning Kong Lung Chemical Recent Developments/Updates

Table 140. Liaoning Kong Lung Chemical Competitive Strengths & Weaknesses

Table 141. Shandong Longze Chemical Basic Information, Manufacturing Base and Competitors

Table 142. Shandong Longze Chemical Major Business

Table 143. Shandong Longze Chemical Propylene Carbonate (PC) Product and Services

Table 144. Shandong Longze Chemical Propylene Carbonate (PC) Production (K MT), Price (US\$/MT), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Shandong Longze Chemical Recent Developments/Updates

Table 146. Shandong Longze Chemical Competitive Strengths & Weaknesses

Table 147. Global Key Players of Propylene Carbonate (PC) Upstream (Raw Materials)

Table 148. Global Propylene Carbonate (PC) Typical Customers

Table 149. Propylene Carbonate (PC) Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Propylene Carbonate (PC) Picture

Figure 2. World Propylene Carbonate (PC) Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Propylene Carbonate (PC) Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Propylene Carbonate (PC) Production (2021-2032) & (K MT)

Figure 5. World Propylene Carbonate (PC) Average Price (2021-2032) & (US\$/MT)

Figure 6. World Propylene Carbonate (PC) Production Value Market Share by Region (2021-2032)

Figure 7. World Propylene Carbonate (PC) Production Market Share by Region (2021-2032)

Figure 8. China Propylene Carbonate (PC) Production (2021-2032) & (K MT)

Figure 9. North America Propylene Carbonate (PC) Production (2021-2032) & (K MT)

Figure 10. Europe Propylene Carbonate (PC) Production (2021-2032) & (K MT)

Figure 11. Propylene Carbonate (PC) Market Drivers

Figure 12. Factors Affecting Demand

Figure 13. World Propylene Carbonate (PC) Consumption (2021-2032) & (K MT)

Figure 14. World Propylene Carbonate (PC) Consumption Market Share by Region (2021-2032)

Figure 15. United States Propylene Carbonate (PC) Consumption (2021-2032) & (K MT)

Figure 16. China Propylene Carbonate (PC) Consumption (2021-2032) & (K MT)

Figure 17. Europe Propylene Carbonate (PC) Consumption (2021-2032) & (K MT)

Figure 18. Japan Propylene Carbonate (PC) Consumption (2021-2032) & (K MT)

Figure 19. South Korea Propylene Carbonate (PC) Consumption (2021-2032) & (K MT)

Figure 20. ASEAN Propylene Carbonate (PC) Consumption (2021-2032) & (K MT)

Figure 21. India Propylene Carbonate (PC) Consumption (2021-2032) & (K MT)

Figure 22. Producer Shipments of Propylene Carbonate (PC) by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 23. Global Four-firm Concentration Ratios (CR4) for Propylene Carbonate (PC) Markets in 2025

Figure 24. Global Four-firm Concentration Ratios (CR8) for Propylene Carbonate (PC) Markets in 2025

Figure 25. United States VS China: Propylene Carbonate (PC) Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 26. United States VS China: Propylene Carbonate (PC) Production Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Propylene Carbonate (PC) Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States Based Manufacturers Propylene Carbonate (PC) Production Market Share 2025

Figure 29. China Based Manufacturers Propylene Carbonate (PC) Production Market Share 2025

Figure 30. Rest of World Based Manufacturers Propylene Carbonate (PC) Production Market Share 2025

Figure 31. World Propylene Carbonate (PC) Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 32. World Propylene Carbonate (PC) Production Value Market Share by Type in 2025

Figure 33. Lithium Battery Grade

Figure 34. Industrial Grade

Figure 35. World Propylene Carbonate (PC) Production Market Share by Type (2021-2032)

Figure 36. World Propylene Carbonate (PC) Production Value Market Share by Type (2021-2032)

Figure 37. World Propylene Carbonate (PC) Average Price by Type (2021-2032) & (US\$/MT)

Figure 38. World Propylene Carbonate (PC) Production Value by Feature, (USD Million), 2021 & 2025 & 2032

Figure 39. World Propylene Carbonate (PC) Production Value Market Share by Feature in 2025

Figure 40. Transesterification Method

Figure 41. Direct Method

Figure 42. World Propylene Carbonate (PC) Production Market Share by Feature (2021-2032)

Figure 43. World Propylene Carbonate (PC) Production Value Market Share by Feature (2021-2032)

Figure 44. World Propylene Carbonate (PC) Average Price by Feature (2021-2032) & (US\$/MT)

Figure 45. World Propylene Carbonate (PC) Production Value by Channel, (USD Million), 2021 & 2025 & 2032

Figure 46. World Propylene Carbonate (PC) Production Value Market Share by Channel in 2025

Figure 47. Direct Selling

Figure 48. Distribution

Figure 49. World Propylene Carbonate (PC) Production Market Share by Channel (2021-2032)

Figure 50. World Propylene Carbonate (PC) Production Value Market Share by Channel (2021-2032)

Figure 51. World Propylene Carbonate (PC) Average Price by Channel (2021-2032) & (US\$/MT)

Figure 52. World Propylene Carbonate (PC) Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 53. World Propylene Carbonate (PC) Production Value Market Share by Application in 2025

Figure 54. Dimethyl Carbonate

Figure 55. Lithium Battery

Figure 56. Industrial Solvent

Figure 57. Others

Figure 58. World Propylene Carbonate (PC) Production Market Share by Application (2021-2032)

Figure 59. World Propylene Carbonate (PC) Production Value Market Share by Application (2021-2032)

Figure 60. World Propylene Carbonate (PC) Average Price by Application (2021-2032) & (US\$/MT)

Figure 61. Propylene Carbonate (PC) Industry Chain

Figure 62. Propylene Carbonate (PC) Procurement Model

Figure 63. Propylene Carbonate (PC) Sales Model

Figure 64. Propylene Carbonate (PC) Sales Channels, Direct Sales, and Distribution

Figure 65. Methodology

Figure 66. Research Process and Data Source

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