

# Global Polymer Electrolyte Market Growth 2026-2032

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## Abstracts

The global Polymer Electrolyte market size is predicted to grow from US\$ 4855 million in 2025 to US\$ 11870 million in 2032; it is expected to grow at a CAGR of 13.7% from 2026 to 2032.

Polymer electrolyte is a class of ion-conducting materials in which a polymer matrix (such as polyethylene oxide, polyacrylonitrile, or polycarbonate-based systems) dissolves or immobilizes ionic salts (e.g., lithium salts like LiPF<sub>6</sub> or LiTFSI), enabling ionic transport while maintaining solid or solid-solid mechanical integrity; they are widely used in lithium-ion batteries, solid-state batteries, fuel cells, and supercapacitors due to their flexibility, safety (non-flammable vs. liquid electrolytes), and ability to form thin films. The supply chain begins upstream with petrochemical or bio-based monomers (ethylene oxide, acrylonitrile, carbonates) and lithium salts produced from lithium chemicals (lithium carbonate/hydroxide), followed by midstream polymer synthesis (polymerization, copolymer design, or gel formation) and electrolyte formulation (salt dissolution, plasticizers, ceramic fillers like Al<sub>2</sub>O<sub>3</sub> or SiO<sub>2</sub> for conductivity enhancement), then membrane or film processing (casting, extrusion, coating onto separators), and finally downstream integration into battery cells or electrochemical devices by OEMs (EV batteries, energy storage systems, consumer electronics), with performance tuning driven by ionic conductivity, electrochemical stability window, mechanical strength, and interfacial compatibility with electrodes. In 2025, global Polymer Electrolyte output was about 300,000 tons with 420,000 tons of capacity, average prices of USD 15,000-28,000 per ton, and gross margins around 33%.

United States market for Polymer Electrolyte is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Polymer Electrolyte is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Polymer Electrolyte is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Polymer Electrolyte players cover BASF (Germany), Solvay (Belgium), Arkema (France), Dow (USA), DuPont (USA), etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the 'Polymer Electrolyte Industry Forecast' looks at past sales and reviews total world Polymer Electrolyte sales in 2025, providing a comprehensive analysis by region and market sector of projected Polymer Electrolyte sales for 2026 through 2032. With Polymer Electrolyte sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Polymer Electrolyte industry.

This Insight Report provides a comprehensive analysis of the global Polymer Electrolyte landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Polymer Electrolyte portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Polymer Electrolyte market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Polymer Electrolyte and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Polymer Electrolyte.

This report presents a comprehensive overview, market shares, and growth opportunities of Polymer Electrolyte market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Solid Polymer Electrolyte

Gel Polymer Electrolyte

## Composite Polymer Electrolyte

### Segmentation by Temperature Performance:

High Temperature

Room Temperature

Low Temperature

### Segmentation by Application:

Electric Vehicle

Energy Storage System

Consumer Electronic

Supercapacitor

Aerospace & Defense

Industrial Equipment

Others

### This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

## APAC

China

Japan

Korea

Southeast Asia

India

Australia

## Europe

Germany

France

UK

Italy

Russia

## Middle East & Africa

Egypt

South Africa

Israel

Turkey

## GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

BASF (Germany)

Solvay (Belgium)

Arkema (France)

Dow (USA)

DuPont (USA)

3M Company (USA)

Evonik (Germany)

SABIC (Saudi Arabia)

Toray (Japan)

Mitsubishi Chemical (Japan)

Sumitomo Chemical (Japan)

Asahi Kasei (Japan)

Nissan Chemical (Japan)

Hitachi Chemical (Japan)

LG Chem (South Korea)

Samsung SDI (South Korea)

SK Innovation (South Korea)

Shenzhen Capchem (China)

Guangzhou Tinci Materials (China)

### **Key Questions Addressed in this Report**

What is the 10-year outlook for the global Polymer Electrolyte market?

What factors are driving Polymer Electrolyte market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Polymer Electrolyte market opportunities vary by end market size?

How does Polymer Electrolyte break out by Type, by Application?

## Contents

### 1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

### 2 EXECUTIVE SUMMARY

#### 2.1 World Market Overview

- 2.1.1 Global Polymer Electrolyte Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Polymer Electrolyte by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Polymer Electrolyte by Country/Region, 2021, 2025 & 2032

#### 2.2 Polymer Electrolyte Segment by Type

- 2.2.1 Solid Polymer Electrolyte
- 2.2.2 Gel Polymer Electrolyte
- 2.2.3 Composite Polymer Electrolyte
- 2.2.4 Polymer Electrolyte Sales by Type
  - 2.2.4.1 Global Polymer Electrolyte Sales Market Share by Type (2021-2026)
  - 2.2.4.2 Global Polymer Electrolyte Revenue and Market Share by Type (2021-2026)
  - 2.2.4.3 Global Polymer Electrolyte Sale Price by Type (2021-2026)

#### 2.3 Polymer Electrolyte Segment by Temperature Performance

- 2.3.1 High Temperature
- 2.3.2 Room Temperature
- 2.3.3 Low Temperature
- 2.3.4 Polymer Electrolyte Sales by Temperature Performance
  - 2.3.4.1 Global Polymer Electrolyte Sales Market Share by Temperature Performance (2021-2026)
  - 2.3.4.2 Global Polymer Electrolyte Revenue and Market Share by Temperature Performance (2021-2026)
  - 2.3.4.3 Global Polymer Electrolyte Sale Price by Temperature Performance

(2021-2026)

## 2.4 Polymer Electrolyte Segment by Application

2.4.1 Electric Vehicle

2.4.2 Energy Storage System

2.4.3 Consumer Electronic

2.4.4 Supercapacitor

2.4.5 Aerospace & Defense

2.4.6 Industrial Equipment

2.4.7 Others

### 2.4.8 Polymer Electrolyte Sales by Application

2.4.8.1 Global Polymer Electrolyte Sale Market Share by Application (2021-2026)

2.4.8.2 Global Polymer Electrolyte Revenue and Market Share by Application

(2021-2026)

2.4.8.3 Global Polymer Electrolyte Sale Price by Application (2021-2026)

## 3 GLOBAL BY COMPANY

### 3.1 Global Polymer Electrolyte Breakdown Data by Company

3.1.1 Global Polymer Electrolyte Annual Sales by Company (2021-2026)

3.1.2 Global Polymer Electrolyte Sales Market Share by Company (2021-2026)

### 3.2 Global Polymer Electrolyte Annual Revenue by Company (2021-2026)

3.2.1 Global Polymer Electrolyte Revenue by Company (2021-2026)

3.2.2 Global Polymer Electrolyte Revenue Market Share by Company (2021-2026)

### 3.3 Global Polymer Electrolyte Sale Price by Company

### 3.4 Key Manufacturers Polymer Electrolyte Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Polymer Electrolyte Product Location Distribution

3.4.2 Players Polymer Electrolyte Products Offered

### 3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

### 3.6 New Products and Potential Entrants

### 3.7 Market M&A Activity & Strategy

## 4 WORLD HISTORIC REVIEW FOR POLYMER ELECTROLYTE BY GEOGRAPHIC REGION

### 4.1 World Historic Polymer Electrolyte Market Size by Geographic Region (2021-2026)

4.1.1 Global Polymer Electrolyte Annual Sales by Geographic Region (2021-2026)

- 4.1.2 Global Polymer Electrolyte Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Polymer Electrolyte Market Size by Country/Region (2021-2026)
  - 4.2.1 Global Polymer Electrolyte Annual Sales by Country/Region (2021-2026)
  - 4.2.2 Global Polymer Electrolyte Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Polymer Electrolyte Sales Growth
- 4.4 APAC Polymer Electrolyte Sales Growth
- 4.5 Europe Polymer Electrolyte Sales Growth
- 4.6 Middle East & Africa Polymer Electrolyte Sales Growth

## **5 AMERICAS**

- 5.1 Americas Polymer Electrolyte Sales by Country
  - 5.1.1 Americas Polymer Electrolyte Sales by Country (2021-2026)
  - 5.1.2 Americas Polymer Electrolyte Revenue by Country (2021-2026)
- 5.2 Americas Polymer Electrolyte Sales by Type (2021-2026)
- 5.3 Americas Polymer Electrolyte Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

## **6 APAC**

- 6.1 APAC Polymer Electrolyte Sales by Region
  - 6.1.1 APAC Polymer Electrolyte Sales by Region (2021-2026)
  - 6.1.2 APAC Polymer Electrolyte Revenue by Region (2021-2026)
- 6.2 APAC Polymer Electrolyte Sales by Type (2021-2026)
- 6.3 APAC Polymer Electrolyte Sales by Application (2021-2026)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

## **7 EUROPE**

- 7.1 Europe Polymer Electrolyte by Country

- 7.1.1 Europe Polymer Electrolyte Sales by Country (2021-2026)
- 7.1.2 Europe Polymer Electrolyte Revenue by Country (2021-2026)
- 7.2 Europe Polymer Electrolyte Sales by Type (2021-2026)
- 7.3 Europe Polymer Electrolyte Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

## **8 MIDDLE EAST & AFRICA**

- 8.1 Middle East & Africa Polymer Electrolyte by Country
  - 8.1.1 Middle East & Africa Polymer Electrolyte Sales by Country (2021-2026)
  - 8.1.2 Middle East & Africa Polymer Electrolyte Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Polymer Electrolyte Sales by Type (2021-2026)
- 8.3 Middle East & Africa Polymer Electrolyte Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

## **9 MARKET DRIVERS, CHALLENGES AND TRENDS**

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

## **10 MANUFACTURING COST STRUCTURE ANALYSIS**

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Polymer Electrolyte
- 10.3 Manufacturing Process Analysis of Polymer Electrolyte
- 10.4 Industry Chain Structure of Polymer Electrolyte

## **11 MARKETING, DISTRIBUTORS AND CUSTOMER**

- 11.1 Sales Channel

- 11.1.1 Direct Channels
- 11.1.2 Indirect Channels
- 11.2 Polymer Electrolyte Distributors
- 11.3 Polymer Electrolyte Customer

## **12 WORLD FORECAST REVIEW FOR POLYMER ELECTROLYTE BY GEOGRAPHIC REGION**

- 12.1 Global Polymer Electrolyte Market Size Forecast by Region
  - 12.1.1 Global Polymer Electrolyte Forecast by Region (2027-2032)
  - 12.1.2 Global Polymer Electrolyte Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Polymer Electrolyte Forecast by Type (2027-2032)
- 12.7 Global Polymer Electrolyte Forecast by Application (2027-2032)

## **13 KEY PLAYERS ANALYSIS**

- 13.1 BASF (Germany)
  - 13.1.1 BASF (Germany) Company Information
  - 13.1.2 BASF (Germany) Polymer Electrolyte Product Portfolios and Specifications
  - 13.1.3 BASF (Germany) Polymer Electrolyte Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.1.4 BASF (Germany) Main Business Overview
  - 13.1.5 BASF (Germany) Latest Developments
- 13.2 Solvay (Belgium)
  - 13.2.1 Solvay (Belgium) Company Information
  - 13.2.2 Solvay (Belgium) Polymer Electrolyte Product Portfolios and Specifications
  - 13.2.3 Solvay (Belgium) Polymer Electrolyte Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.2.4 Solvay (Belgium) Main Business Overview
  - 13.2.5 Solvay (Belgium) Latest Developments
- 13.3 Arkema (France)
  - 13.3.1 Arkema (France) Company Information
  - 13.3.2 Arkema (France) Polymer Electrolyte Product Portfolios and Specifications
  - 13.3.3 Arkema (France) Polymer Electrolyte Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.3.4 Arkema (France) Main Business Overview
- 13.3.5 Arkema (France) Latest Developments
- 13.4 Dow (USA)
  - 13.4.1 Dow (USA) Company Information
  - 13.4.2 Dow (USA) Polymer Electrolyte Product Portfolios and Specifications
  - 13.4.3 Dow (USA) Polymer Electrolyte Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.4.4 Dow (USA) Main Business Overview
  - 13.4.5 Dow (USA) Latest Developments
- 13.5 DuPont (USA)
  - 13.5.1 DuPont (USA) Company Information
  - 13.5.2 DuPont (USA) Polymer Electrolyte Product Portfolios and Specifications
  - 13.5.3 DuPont (USA) Polymer Electrolyte Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.5.4 DuPont (USA) Main Business Overview
  - 13.5.5 DuPont (USA) Latest Developments
- 13.6 3M Company (USA)
  - 13.6.1 3M Company (USA) Company Information
  - 13.6.2 3M Company (USA) Polymer Electrolyte Product Portfolios and Specifications
  - 13.6.3 3M Company (USA) Polymer Electrolyte Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.6.4 3M Company (USA) Main Business Overview
  - 13.6.5 3M Company (USA) Latest Developments
- 13.7 Evonik (Germany)
  - 13.7.1 Evonik (Germany) Company Information
  - 13.7.2 Evonik (Germany) Polymer Electrolyte Product Portfolios and Specifications
  - 13.7.3 Evonik (Germany) Polymer Electrolyte Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.7.4 Evonik (Germany) Main Business Overview
  - 13.7.5 Evonik (Germany) Latest Developments
- 13.8 SABIC (Saudi Arabia)
  - 13.8.1 SABIC (Saudi Arabia) Company Information
  - 13.8.2 SABIC (Saudi Arabia) Polymer Electrolyte Product Portfolios and Specifications
  - 13.8.3 SABIC (Saudi Arabia) Polymer Electrolyte Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.8.4 SABIC (Saudi Arabia) Main Business Overview
  - 13.8.5 SABIC (Saudi Arabia) Latest Developments
- 13.9 Toray (Japan)
  - 13.9.1 Toray (Japan) Company Information

- 13.9.2 Toray (Japan) Polymer Electrolyte Product Portfolios and Specifications
- 13.9.3 Toray (Japan) Polymer Electrolyte Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.9.4 Toray (Japan) Main Business Overview
- 13.9.5 Toray (Japan) Latest Developments
- 13.10 Mitsubishi Chemical (Japan)
  - 13.10.1 Mitsubishi Chemical (Japan) Company Information
  - 13.10.2 Mitsubishi Chemical (Japan) Polymer Electrolyte Product Portfolios and Specifications
  - 13.10.3 Mitsubishi Chemical (Japan) Polymer Electrolyte Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.10.4 Mitsubishi Chemical (Japan) Main Business Overview
  - 13.10.5 Mitsubishi Chemical (Japan) Latest Developments
- 13.11 Sumitomo Chemical (Japan)
  - 13.11.1 Sumitomo Chemical (Japan) Company Information
  - 13.11.2 Sumitomo Chemical (Japan) Polymer Electrolyte Product Portfolios and Specifications
  - 13.11.3 Sumitomo Chemical (Japan) Polymer Electrolyte Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.11.4 Sumitomo Chemical (Japan) Main Business Overview
  - 13.11.5 Sumitomo Chemical (Japan) Latest Developments
- 13.12 Asahi Kasei (Japan)
  - 13.12.1 Asahi Kasei (Japan) Company Information
  - 13.12.2 Asahi Kasei (Japan) Polymer Electrolyte Product Portfolios and Specifications
  - 13.12.3 Asahi Kasei (Japan) Polymer Electrolyte Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.12.4 Asahi Kasei (Japan) Main Business Overview
  - 13.12.5 Asahi Kasei (Japan) Latest Developments
- 13.13 Nissan Chemical (Japan)
  - 13.13.1 Nissan Chemical (Japan) Company Information
  - 13.13.2 Nissan Chemical (Japan) Polymer Electrolyte Product Portfolios and Specifications
  - 13.13.3 Nissan Chemical (Japan) Polymer Electrolyte Sales, Revenue, Price and Gross Margin (2021-2026)
  - 13.13.4 Nissan Chemical (Japan) Main Business Overview
  - 13.13.5 Nissan Chemical (Japan) Latest Developments
- 13.14 Hitachi Chemical (Japan)
  - 13.14.1 Hitachi Chemical (Japan) Company Information
  - 13.14.2 Hitachi Chemical (Japan) Polymer Electrolyte Product Portfolios and

## Specifications

13.14.3 Hitachi Chemical (Japan) Polymer Electrolyte Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Hitachi Chemical (Japan) Main Business Overview

13.14.5 Hitachi Chemical (Japan) Latest Developments

## 13.15 LG Chem (South Korea)

13.15.1 LG Chem (South Korea) Company Information

13.15.2 LG Chem (South Korea) Polymer Electrolyte Product Portfolios and

## Specifications

13.15.3 LG Chem (South Korea) Polymer Electrolyte Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 LG Chem (South Korea) Main Business Overview

13.15.5 LG Chem (South Korea) Latest Developments

## 13.16 Samsung SDI (South Korea)

13.16.1 Samsung SDI (South Korea) Company Information

13.16.2 Samsung SDI (South Korea) Polymer Electrolyte Product Portfolios and

## Specifications

13.16.3 Samsung SDI (South Korea) Polymer Electrolyte Sales, Revenue, Price and Gross Margin (2021-2026)

13.16.4 Samsung SDI (South Korea) Main Business Overview

13.16.5 Samsung SDI (South Korea) Latest Developments

## 13.17 SK Innovation (South Korea)

13.17.1 SK Innovation (South Korea) Company Information

13.17.2 SK Innovation (South Korea) Polymer Electrolyte Product Portfolios and

## Specifications

13.17.3 SK Innovation (South Korea) Polymer Electrolyte Sales, Revenue, Price and Gross Margin (2021-2026)

13.17.4 SK Innovation (South Korea) Main Business Overview

13.17.5 SK Innovation (South Korea) Latest Developments

## 13.18 Shenzhen Capchem (China)

13.18.1 Shenzhen Capchem (China) Company Information

13.18.2 Shenzhen Capchem (China) Polymer Electrolyte Product Portfolios and

## Specifications

13.18.3 Shenzhen Capchem (China) Polymer Electrolyte Sales, Revenue, Price and Gross Margin (2021-2026)

13.18.4 Shenzhen Capchem (China) Main Business Overview

13.18.5 Shenzhen Capchem (China) Latest Developments

## 13.19 Guangzhou Tinci Materials (China)

13.19.1 Guangzhou Tinci Materials (China) Company Information

13.19.2 Guangzhou Tinci Materials (China) Polymer Electrolyte Product Portfolios and Specifications

13.19.3 Guangzhou Tinci Materials (China) Polymer Electrolyte Sales, Revenue, Price and Gross Margin (2021-2026)

13.19.4 Guangzhou Tinci Materials (China) Main Business Overview

13.19.5 Guangzhou Tinci Materials (China) Latest Developments

## **14 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

Table 1. Polymer Electrolyte Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Polymer Electrolyte Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Solid Polymer Electrolyte

Table 4. Major Players of Gel Polymer Electrolyte

Table 5. Major Players of Composite Polymer Electrolyte

Table 6. Global Polymer Electrolyte Sales by Type (2021-2026) & (Tons)

Table 7. Global Polymer Electrolyte Sales Market Share by Type (2021-2026)

Table 8. Global Polymer Electrolyte Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Polymer Electrolyte Revenue Market Share by Type (2021-2026)

Table 10. Global Polymer Electrolyte Sale Price by Type (2021-2026) & (US\$/Ton)

Table 11. Major Players of High Temperature

Table 12. Major Players of Room Temperature

Table 13. Major Players of Low Temperature

Table 14. Global Polymer Electrolyte Sales by Temperature Performance (2021-2026) & (Tons)

Table 15. Global Polymer Electrolyte Sales Market Share by Temperature Performance (2021-2026)

Table 16. Global Polymer Electrolyte Revenue by Temperature Performance (2021-2026) & (\$ million)

Table 17. Global Polymer Electrolyte Revenue Market Share by Temperature Performance (2021-2026)

Table 18. Global Polymer Electrolyte Sale Price by Temperature Performance (2021-2026) & (US\$/Ton)

Table 19. Global Polymer Electrolyte Sale by Application (2021-2026) & (Tons)

Table 20. Global Polymer Electrolyte Sale Market Share by Application (2021-2026)

Table 21. Global Polymer Electrolyte Revenue by Application (2021-2026) & (\$ million)

Table 22. Global Polymer Electrolyte Revenue Market Share by Application (2021-2026)

Table 23. Global Polymer Electrolyte Sale Price by Application (2021-2026) & (US\$/Ton)

Table 24. Global Polymer Electrolyte Sales by Company (2021-2026) & (Tons)

Table 25. Global Polymer Electrolyte Sales Market Share by Company (2021-2026)

Table 26. Global Polymer Electrolyte Revenue by Company (2021-2026) & (\$ millions)

- Table 27. Global Polymer Electrolyte Revenue Market Share by Company (2021-2026)
- Table 28. Global Polymer Electrolyte Sale Price by Company (2021-2026) & (US\$/Ton)
- Table 29. Key Manufacturers Polymer Electrolyte Producing Area Distribution and Sales Area
- Table 30. Players Polymer Electrolyte Products Offered
- Table 31. Polymer Electrolyte Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- Table 32. New Products and Potential Entrants
- Table 33. Market M&A Activity & Strategy
- Table 34. Global Polymer Electrolyte Sales by Geographic Region (2021-2026) & (Tons)
- Table 35. Global Polymer Electrolyte Sales Market Share Geographic Region (2021-2026)
- Table 36. Global Polymer Electrolyte Revenue by Geographic Region (2021-2026) & (\$ millions)
- Table 37. Global Polymer Electrolyte Revenue Market Share by Geographic Region (2021-2026)
- Table 38. Global Polymer Electrolyte Sales by Country/Region (2021-2026) & (Tons)
- Table 39. Global Polymer Electrolyte Sales Market Share by Country/Region (2021-2026)
- Table 40. Global Polymer Electrolyte Revenue by Country/Region (2021-2026) & (\$ millions)
- Table 41. Global Polymer Electrolyte Revenue Market Share by Country/Region (2021-2026)
- Table 42. Americas Polymer Electrolyte Sales by Country (2021-2026) & (Tons)
- Table 43. Americas Polymer Electrolyte Sales Market Share by Country (2021-2026)
- Table 44. Americas Polymer Electrolyte Revenue by Country (2021-2026) & (\$ millions)
- Table 45. Americas Polymer Electrolyte Sales by Type (2021-2026) & (Tons)
- Table 46. Americas Polymer Electrolyte Sales by Application (2021-2026) & (Tons)
- Table 47. APAC Polymer Electrolyte Sales by Region (2021-2026) & (Tons)
- Table 48. APAC Polymer Electrolyte Sales Market Share by Region (2021-2026)
- Table 49. APAC Polymer Electrolyte Revenue by Region (2021-2026) & (\$ millions)
- Table 50. APAC Polymer Electrolyte Sales by Type (2021-2026) & (Tons)
- Table 51. APAC Polymer Electrolyte Sales by Application (2021-2026) & (Tons)
- Table 52. Europe Polymer Electrolyte Sales by Country (2021-2026) & (Tons)
- Table 53. Europe Polymer Electrolyte Revenue by Country (2021-2026) & (\$ millions)
- Table 54. Europe Polymer Electrolyte Sales by Type (2021-2026) & (Tons)
- Table 55. Europe Polymer Electrolyte Sales by Application (2021-2026) & (Tons)
- Table 56. Middle East & Africa Polymer Electrolyte Sales by Country (2021-2026) &

(Tons)

Table 57. Middle East & Africa Polymer Electrolyte Revenue Market Share by Country (2021-2026)

Table 58. Middle East & Africa Polymer Electrolyte Sales by Type (2021-2026) & (Tons)

Table 59. Middle East & Africa Polymer Electrolyte Sales by Application (2021-2026) & (Tons)

Table 60. Key Market Drivers & Growth Opportunities of Polymer Electrolyte

Table 61. Key Market Challenges & Risks of Polymer Electrolyte

Table 62. Key Industry Trends of Polymer Electrolyte

Table 63. Polymer Electrolyte Raw Material

Table 64. Key Suppliers of Raw Materials

Table 65. Polymer Electrolyte Distributors List

Table 66. Polymer Electrolyte Customer List

Table 67. Global Polymer Electrolyte Sales Forecast by Region (2027-2032) & (Tons)

Table 68. Global Polymer Electrolyte Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 69. Americas Polymer Electrolyte Sales Forecast by Country (2027-2032) & (Tons)

Table 70. Americas Polymer Electrolyte Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 71. APAC Polymer Electrolyte Sales Forecast by Region (2027-2032) & (Tons)

Table 72. APAC Polymer Electrolyte Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 73. Europe Polymer Electrolyte Sales Forecast by Country (2027-2032) & (Tons)

Table 74. Europe Polymer Electrolyte Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 75. Middle East & Africa Polymer Electrolyte Sales Forecast by Country (2027-2032) & (Tons)

Table 76. Middle East & Africa Polymer Electrolyte Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 77. Global Polymer Electrolyte Sales Forecast by Type (2027-2032) & (Tons)

Table 78. Global Polymer Electrolyte Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 79. Global Polymer Electrolyte Sales Forecast by Application (2027-2032) & (Tons)

Table 80. Global Polymer Electrolyte Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 81. BASF (Germany) Basic Information, Polymer Electrolyte Manufacturing Base, Sales Area and Its Competitors

- Table 82. BASF (Germany) Polymer Electrolyte Product Portfolios and Specifications
- Table 83. BASF (Germany) Polymer Electrolyte Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 84. BASF (Germany) Main Business
- Table 85. BASF (Germany) Latest Developments
- Table 86. Solvay (Belgium) Basic Information, Polymer Electrolyte Manufacturing Base, Sales Area and Its Competitors
- Table 87. Solvay (Belgium) Polymer Electrolyte Product Portfolios and Specifications
- Table 88. Solvay (Belgium) Polymer Electrolyte Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 89. Solvay (Belgium) Main Business
- Table 90. Solvay (Belgium) Latest Developments
- Table 91. Arkema (France) Basic Information, Polymer Electrolyte Manufacturing Base, Sales Area and Its Competitors
- Table 92. Arkema (France) Polymer Electrolyte Product Portfolios and Specifications
- Table 93. Arkema (France) Polymer Electrolyte Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 94. Arkema (France) Main Business
- Table 95. Arkema (France) Latest Developments
- Table 96. Dow (USA) Basic Information, Polymer Electrolyte Manufacturing Base, Sales Area and Its Competitors
- Table 97. Dow (USA) Polymer Electrolyte Product Portfolios and Specifications
- Table 98. Dow (USA) Polymer Electrolyte Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 99. Dow (USA) Main Business
- Table 100. Dow (USA) Latest Developments
- Table 101. DuPont (USA) Basic Information, Polymer Electrolyte Manufacturing Base, Sales Area and Its Competitors
- Table 102. DuPont (USA) Polymer Electrolyte Product Portfolios and Specifications
- Table 103. DuPont (USA) Polymer Electrolyte Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 104. DuPont (USA) Main Business
- Table 105. DuPont (USA) Latest Developments
- Table 106. 3M Company (USA) Basic Information, Polymer Electrolyte Manufacturing Base, Sales Area and Its Competitors
- Table 107. 3M Company (USA) Polymer Electrolyte Product Portfolios and Specifications
- Table 108. 3M Company (USA) Polymer Electrolyte Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

- Table 109. 3M Company (USA) Main Business
- Table 110. 3M Company (USA) Latest Developments
- Table 111. Evonik (Germany) Basic Information, Polymer Electrolyte Manufacturing Base, Sales Area and Its Competitors
- Table 112. Evonik (Germany) Polymer Electrolyte Product Portfolios and Specifications
- Table 113. Evonik (Germany) Polymer Electrolyte Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 114. Evonik (Germany) Main Business
- Table 115. Evonik (Germany) Latest Developments
- Table 116. SABIC (Saudi Arabia) Basic Information, Polymer Electrolyte Manufacturing Base, Sales Area and Its Competitors
- Table 117. SABIC (Saudi Arabia) Polymer Electrolyte Product Portfolios and Specifications
- Table 118. SABIC (Saudi Arabia) Polymer Electrolyte Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 119. SABIC (Saudi Arabia) Main Business
- Table 120. SABIC (Saudi Arabia) Latest Developments
- Table 121. Toray (Japan) Basic Information, Polymer Electrolyte Manufacturing Base, Sales Area and Its Competitors
- Table 122. Toray (Japan) Polymer Electrolyte Product Portfolios and Specifications
- Table 123. Toray (Japan) Polymer Electrolyte Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 124. Toray (Japan) Main Business
- Table 125. Toray (Japan) Latest Developments
- Table 126. Mitsubishi Chemical (Japan) Basic Information, Polymer Electrolyte Manufacturing Base, Sales Area and Its Competitors
- Table 127. Mitsubishi Chemical (Japan) Polymer Electrolyte Product Portfolios and Specifications
- Table 128. Mitsubishi Chemical (Japan) Polymer Electrolyte Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 129. Mitsubishi Chemical (Japan) Main Business
- Table 130. Mitsubishi Chemical (Japan) Latest Developments
- Table 131. Sumitomo Chemical (Japan) Basic Information, Polymer Electrolyte Manufacturing Base, Sales Area and Its Competitors
- Table 132. Sumitomo Chemical (Japan) Polymer Electrolyte Product Portfolios and Specifications
- Table 133. Sumitomo Chemical (Japan) Polymer Electrolyte Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 134. Sumitomo Chemical (Japan) Main Business

Table 135. Sumitomo Chemical (Japan) Latest Developments

Table 136. Asahi Kasei (Japan) Basic Information, Polymer Electrolyte Manufacturing Base, Sales Area and Its Competitors

Table 137. Asahi Kasei (Japan) Polymer Electrolyte Product Portfolios and Specifications

Table 138. Asahi Kasei (Japan) Polymer Electrolyte Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 139. Asahi Kasei (Japan) Main Business

Table 140. Asahi Kasei (Japan) Latest Developments

Table 141. Nissan Chemical (Japan) Basic Information, Polymer Electrolyte Manufacturing Base, Sales Area and Its Competitors

Table 142. Nissan Chemical (Japan) Polymer Electrolyte Product Portfolios and Specifications

Table 143. Nissan Chemical (Japan) Polymer Electrolyte Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 144. Nissan Chemical (Japan) Main Business

Table 145. Nissan Chemical (Japan) Latest Developments

Table 146. Hitachi Chemical (Japan) Basic Information, Polymer Electrolyte Manufacturing Base, Sales Area and Its Competitors

Table 147. Hitachi Chemical (Japan) Polymer Electrolyte Product Portfolios and Specifications

Table 148. Hitachi Chemical (Japan) Polymer Electrolyte Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 149. Hitachi Chemical (Japan) Main Business

Table 150. Hitachi Chemical (Japan) Latest Developments

Table 151. LG Chem (South Korea) Basic Information, Polymer Electrolyte Manufacturing Base, Sales Area and Its Competitors

Table 152. LG Chem (South Korea) Polymer Electrolyte Product Portfolios and Specifications

Table 153. LG Chem (South Korea) Polymer Electrolyte Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 154. LG Chem (South Korea) Main Business

Table 155. LG Chem (South Korea) Latest Developments

Table 156. Samsung SDI (South Korea) Basic Information, Polymer Electrolyte Manufacturing Base, Sales Area and Its Competitors

Table 157. Samsung SDI (South Korea) Polymer Electrolyte Product Portfolios and Specifications

Table 158. Samsung SDI (South Korea) Polymer Electrolyte Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

- Table 159. Samsung SDI (South Korea) Main Business
- Table 160. Samsung SDI (South Korea) Latest Developments
- Table 161. SK Innovation (South Korea) Basic Information, Polymer Electrolyte Manufacturing Base, Sales Area and Its Competitors
- Table 162. SK Innovation (South Korea) Polymer Electrolyte Product Portfolios and Specifications
- Table 163. SK Innovation (South Korea) Polymer Electrolyte Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 164. SK Innovation (South Korea) Main Business
- Table 165. SK Innovation (South Korea) Latest Developments
- Table 166. Shenzhen Capchem (China) Basic Information, Polymer Electrolyte Manufacturing Base, Sales Area and Its Competitors
- Table 167. Shenzhen Capchem (China) Polymer Electrolyte Product Portfolios and Specifications
- Table 168. Shenzhen Capchem (China) Polymer Electrolyte Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 169. Shenzhen Capchem (China) Main Business
- Table 170. Shenzhen Capchem (China) Latest Developments
- Table 171. Guangzhou Tinci Materials (China) Basic Information, Polymer Electrolyte Manufacturing Base, Sales Area and Its Competitors
- Table 172. Guangzhou Tinci Materials (China) Polymer Electrolyte Product Portfolios and Specifications
- Table 173. Guangzhou Tinci Materials (China) Polymer Electrolyte Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)
- Table 174. Guangzhou Tinci Materials (China) Main Business
- Table 175. Guangzhou Tinci Materials (China) Latest Developments

## List Of Figures

### LIST OF FIGURES

- Figure 1. Picture of Polymer Electrolyte
- Figure 2. Polymer Electrolyte Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Polymer Electrolyte Sales Growth Rate 2021-2032 (Tons)
- Figure 7. Global Polymer Electrolyte Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Polymer Electrolyte Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Polymer Electrolyte Sales Market Share by Country/Region (2025)
- Figure 10. Polymer Electrolyte Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Solid Polymer Electrolyte
- Figure 12. Product Picture of Gel Polymer Electrolyte
- Figure 13. Product Picture of Composite Polymer Electrolyte
- Figure 14. Global Polymer Electrolyte Sales Market Share by Type in 2026
- Figure 15. Global Polymer Electrolyte Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of High Temperature
- Figure 17. Product Picture of Room Temperature
- Figure 18. Product Picture of Low Temperature
- Figure 19. Global Polymer Electrolyte Sales Market Share by Temperature Performance in 2026
- Figure 20. Global Polymer Electrolyte Revenue Market Share by Temperature Performance (2021-2026)
- Figure 21. Polymer Electrolyte Consumed in Electric Vehicle
- Figure 22. Global Polymer Electrolyte Market: Electric Vehicle (2021-2026) & (Tons)
- Figure 23. Polymer Electrolyte Consumed in Energy Storage System
- Figure 24. Global Polymer Electrolyte Market: Energy Storage System (2021-2026) & (Tons)
- Figure 25. Polymer Electrolyte Consumed in Consumer Electronic
- Figure 26. Global Polymer Electrolyte Market: Consumer Electronic (2021-2026) & (Tons)
- Figure 27. Polymer Electrolyte Consumed in Supercapacitor
- Figure 28. Global Polymer Electrolyte Market: Supercapacitor (2021-2026) & (Tons)
- Figure 29. Polymer Electrolyte Consumed in Aerospace & Defense

Figure 30. Global Polymer Electrolyte Market: Aerospace & Defense (2021-2026) & (Tons)

Figure 31. Polymer Electrolyte Consumed in Industrial Equipment

Figure 32. Global Polymer Electrolyte Market: Industrial Equipment (2021-2026) & (Tons)

Figure 33. Polymer Electrolyte Consumed in Others

Figure 34. Global Polymer Electrolyte Market: Others (2021-2026) & (Tons)

Figure 35. Global Polymer Electrolyte Sale Market Share by Application (2025)

Figure 36. Global Polymer Electrolyte Revenue Market Share by Application in 2025

Figure 37. Polymer Electrolyte Sales by Company in 2025 (Tons)

Figure 38. Global Polymer Electrolyte Sales Market Share by Company in 2025

Figure 39. Polymer Electrolyte Revenue by Company in 2025 (\$ millions)

Figure 40. Global Polymer Electrolyte Revenue Market Share by Company in 2025

Figure 41. Global Polymer Electrolyte Sales Market Share by Geographic Region (2021-2026)

Figure 42. Global Polymer Electrolyte Revenue Market Share by Geographic Region in 2025

Figure 43. Americas Polymer Electrolyte Sales 2021-2026 (Tons)

Figure 44. Americas Polymer Electrolyte Revenue 2021-2026 (\$ millions)

Figure 45. APAC Polymer Electrolyte Sales 2021-2026 (Tons)

Figure 46. APAC Polymer Electrolyte Revenue 2021-2026 (\$ millions)

Figure 47. Europe Polymer Electrolyte Sales 2021-2026 (Tons)

Figure 48. Europe Polymer Electrolyte Revenue 2021-2026 (\$ millions)

Figure 49. Middle East & Africa Polymer Electrolyte Sales 2021-2026 (Tons)

Figure 50. Middle East & Africa Polymer Electrolyte Revenue 2021-2026 (\$ millions)

Figure 51. Americas Polymer Electrolyte Sales Market Share by Country in 2025

Figure 52. Americas Polymer Electrolyte Revenue Market Share by Country (2021-2026)

Figure 53. Americas Polymer Electrolyte Sales Market Share by Type (2021-2026)

Figure 54. Americas Polymer Electrolyte Sales Market Share by Application (2021-2026)

Figure 55. United States Polymer Electrolyte Revenue Growth 2021-2026 (\$ millions)

Figure 56. Canada Polymer Electrolyte Revenue Growth 2021-2026 (\$ millions)

Figure 57. Mexico Polymer Electrolyte Revenue Growth 2021-2026 (\$ millions)

Figure 58. Brazil Polymer Electrolyte Revenue Growth 2021-2026 (\$ millions)

Figure 59. APAC Polymer Electrolyte Sales Market Share by Region in 2025

Figure 60. APAC Polymer Electrolyte Revenue Market Share by Region (2021-2026)

Figure 61. APAC Polymer Electrolyte Sales Market Share by Type (2021-2026)

Figure 62. APAC Polymer Electrolyte Sales Market Share by Application (2021-2026)

- Figure 63. China Polymer Electrolyte Revenue Growth 2021-2026 (\$ millions)
- Figure 64. Japan Polymer Electrolyte Revenue Growth 2021-2026 (\$ millions)
- Figure 65. South Korea Polymer Electrolyte Revenue Growth 2021-2026 (\$ millions)
- Figure 66. Southeast Asia Polymer Electrolyte Revenue Growth 2021-2026 (\$ millions)
- Figure 67. India Polymer Electrolyte Revenue Growth 2021-2026 (\$ millions)
- Figure 68. Australia Polymer Electrolyte Revenue Growth 2021-2026 (\$ millions)
- Figure 69. China Taiwan Polymer Electrolyte Revenue Growth 2021-2026 (\$ millions)
- Figure 70. Europe Polymer Electrolyte Sales Market Share by Country in 2025
- Figure 71. Europe Polymer Electrolyte Revenue Market Share by Country (2021-2026)
- Figure 72. Europe Polymer Electrolyte Sales Market Share by Type (2021-2026)
- Figure 73. Europe Polymer Electrolyte Sales Market Share by Application (2021-2026)
- Figure 74. Germany Polymer Electrolyte Revenue Growth 2021-2026 (\$ millions)
- Figure 75. France Polymer Electrolyte Revenue Growth 2021-2026 (\$ millions)
- Figure 76. UK Polymer Electrolyte Revenue Growth 2021-2026 (\$ millions)
- Figure 77. Italy Polymer Electrolyte Revenue Growth 2021-2026 (\$ millions)
- Figure 78. Russia Polymer Electrolyte Revenue Growth 2021-2026 (\$ millions)
- Figure 79. Middle East & Africa Polymer Electrolyte Sales Market Share by Country (2021-2026)
- Figure 80. Middle East & Africa Polymer Electrolyte Sales Market Share by Type (2021-2026)
- Figure 81. Middle East & Africa Polymer Electrolyte Sales Market Share by Application (2021-2026)
- Figure 82. Egypt Polymer Electrolyte Revenue Growth 2021-2026 (\$ millions)
- Figure 83. South Africa Polymer Electrolyte Revenue Growth 2021-2026 (\$ millions)
- Figure 84. Israel Polymer Electrolyte Revenue Growth 2021-2026 (\$ millions)
- Figure 85. Turkey Polymer Electrolyte Revenue Growth 2021-2026 (\$ millions)
- Figure 86. GCC Countries Polymer Electrolyte Revenue Growth 2021-2026 (\$ millions)
- Figure 87. Manufacturing Cost Structure Analysis of Polymer Electrolyte in 2026
- Figure 88. Manufacturing Process Analysis of Polymer Electrolyte
- Figure 89. Industry Chain Structure of Polymer Electrolyte
- Figure 90. Channels of Distribution
- Figure 91. Global Polymer Electrolyte Sales Market Forecast by Region (2027-2032)
- Figure 92. Global Polymer Electrolyte Revenue Market Share Forecast by Region (2027-2032)
- Figure 93. Global Polymer Electrolyte Sales Market Share Forecast by Type (2027-2032)
- Figure 94. Global Polymer Electrolyte Revenue Market Share Forecast by Type (2027-2032)
- Figure 95. Global Polymer Electrolyte Sales Market Share Forecast by Application

(2027-2032)

Figure 96. Global Polymer Electrolyte Revenue Market Share Forecast by Application

(2027-2032)

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