

Global Polyethylene Battery Diaphragm Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Polyethylene Battery Diaphragm market size was valued at US\$ 227 million in 2024 and is forecast to a readjusted size of USD 396 million by 2031 with a CAGR of 8.4% during review period.

Polyethylene battery diaphragms, as the surface of lithium-ion polymer battery diaphragms, the presence of PiAN induced to the membrane surface by plasma modification plays a key role in improving wettability and electrolyte retention, interfacial adhesion between electrode and diaphragm, and the cycling performance of the resulting lithium-ion polymer battery components. The plasma-treated modified PiAN-PE diaphragm has great potential as a high-performance, cost-effective diaphragm for lithium-ion polymer batteries.

The increasing demand for batteries in various sectors, including electric vehicles, consumer electronics, and renewable energy storage, could drive the demand for high-quality diaphragms like those made from polyethylene. As battery technology continues to evolve, the need for advanced materials and components, including diaphragms, is expected to grow. Polyethylene diaphragms could play a role in improving battery efficiency, safety, and performance. The role of diaphragms in preventing short-circuits and enhancing battery safety makes them a critical component. Manufacturers are likely to invest in high-quality diaphragms to ensure the safety and reliability of their batteries. Battery safety regulations and environmental considerations might influence the choice of materials used in battery components. Polyethylene, as a widely used and stable material, could align with regulatory requirements. Ongoing research and development efforts in battery technology could lead to the development of innovative diaphragm designs and materials. Polyethylene diaphragms might benefit from such

advancements. Trends in the global battery market, such as the transition to electric vehicles and the growth of renewable energy systems, could impact the demand for diaphragms used in various types of batteries. Factors such as raw material availability, production processes, and manufacturing capabilities could influence the supply and demand dynamics of polyethylene diaphragms.

This report is a detailed and comprehensive analysis for global Polyethylene Battery Diaphragm market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Polyethylene Battery Diaphragm market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Polyethylene Battery Diaphragm market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Polyethylene Battery Diaphragm market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Polyethylene Battery Diaphragm market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Polyethylene Battery Diaphragm

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Polyethylene Battery Diaphragm market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Celgard, LLC, W-SCOPE Corporation, Foshan Lith Battery Material Co., Ltd., Jinhui Lithium Energy Co., Ltd, Asahi Kasei Corporation, Toray Industries, Entek International LLC, SK Innovation Co, The Freudenberg Group, Sumitomo Chemical Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Polyethylene Battery Diaphragm market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Woven Films

Non Woven Films

Market segment by Application

Mechanical Engineering

Automotive Industry

Aerospace

Oil And Gas

Chemical Industry

Medical Technology

Electrical Industry

Major players covered

Celgard, LLC

W-SCOPE Corporation

Foshan Lith Battery Material Co., Ltd.

Jinhui Lithium Energy Co., Ltd

Asahi Kasei Corporation

Toray Industries

Entek International LLC

SK Innovation Co

The Freudenberg Group

Sumitomo Chemical Co., Ltd.

DreamWeaver International, Inc.

Ube Industries, Ltd.

Polypore International

Grepow Battery Co., Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Polyethylene Battery Diaphragm product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Polyethylene Battery Diaphragm, with price, sales quantity, revenue, and global market share of Polyethylene Battery Diaphragm from 2020 to 2025.

Chapter 3, the Polyethylene Battery Diaphragm competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Polyethylene Battery Diaphragm breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Polyethylene Battery Diaphragm market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Polyethylene Battery Diaphragm.

Chapter 14 and 15, to describe Polyethylene Battery Diaphragm sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Polyethylene Battery Diaphragm Consumption Value by Type: 2020 Versus 2024 Versus 2031

1.3.2 Woven Films

1.3.3 Non Woven Films

1.4 Market Analysis by Application

1.4.1 Overview: Global Polyethylene Battery Diaphragm Consumption Value by Application: 2020 Versus 2024 Versus 2031

1.4.2 Mechanical Engineering

1.4.3 Automotive Industry

1.4.4 Aerospace

1.4.5 Oil And Gas

1.4.6 Chemical Industry

1.4.7 Medical Technology

1.4.8 Electrical Industry

1.5 Global Polyethylene Battery Diaphragm Market Size & Forecast

1.5.1 Global Polyethylene Battery Diaphragm Consumption Value (2020 & 2024 & 2031)

1.5.2 Global Polyethylene Battery Diaphragm Sales Quantity (2020-2031)

1.5.3 Global Polyethylene Battery Diaphragm Average Price (2020-2031)

2 MANUFACTURERS PROFILES

2.1 Celgard, LLC

2.1.1 Celgard, LLC Details

2.1.2 Celgard, LLC Major Business

2.1.3 Celgard, LLC Polyethylene Battery Diaphragm Product and Services

2.1.4 Celgard, LLC Polyethylene Battery Diaphragm Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.1.5 Celgard, LLC Recent Developments/Updates

2.2 W-SCOPE Corporation

2.2.1 W-SCOPE Corporation Details

2.2.2 W-SCOPE Corporation Major Business

- 2.2.3 W-SCOPE Corporation Polyethylene Battery Diaphragm Product and Services
- 2.2.4 W-SCOPE Corporation Polyethylene Battery Diaphragm Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.2.5 W-SCOPE Corporation Recent Developments/Updates
- 2.3 Foshan Lith Battery Material Co., Ltd.
 - 2.3.1 Foshan Lith Battery Material Co., Ltd. Details
 - 2.3.2 Foshan Lith Battery Material Co., Ltd. Major Business
 - 2.3.3 Foshan Lith Battery Material Co., Ltd. Polyethylene Battery Diaphragm Product and Services
 - 2.3.4 Foshan Lith Battery Material Co., Ltd. Polyethylene Battery Diaphragm Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.3.5 Foshan Lith Battery Material Co., Ltd. Recent Developments/Updates
- 2.4 Jinhui Lithium Energy Co., Ltd.
 - 2.4.1 Jinhui Lithium Energy Co., Ltd Details
 - 2.4.2 Jinhui Lithium Energy Co., Ltd Major Business
 - 2.4.3 Jinhui Lithium Energy Co., Ltd Polyethylene Battery Diaphragm Product and Services
 - 2.4.4 Jinhui Lithium Energy Co., Ltd Polyethylene Battery Diaphragm Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.4.5 Jinhui Lithium Energy Co., Ltd Recent Developments/Updates
- 2.5 Asahi Kasei Corporation
 - 2.5.1 Asahi Kasei Corporation Details
 - 2.5.2 Asahi Kasei Corporation Major Business
 - 2.5.3 Asahi Kasei Corporation Polyethylene Battery Diaphragm Product and Services
 - 2.5.4 Asahi Kasei Corporation Polyethylene Battery Diaphragm Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.5.5 Asahi Kasei Corporation Recent Developments/Updates
- 2.6 Toray Industries
 - 2.6.1 Toray Industries Details
 - 2.6.2 Toray Industries Major Business
 - 2.6.3 Toray Industries Polyethylene Battery Diaphragm Product and Services
 - 2.6.4 Toray Industries Polyethylene Battery Diaphragm Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.6.5 Toray Industries Recent Developments/Updates
- 2.7 Entek International LLC
 - 2.7.1 Entek International LLC Details
 - 2.7.2 Entek International LLC Major Business
 - 2.7.3 Entek International LLC Polyethylene Battery Diaphragm Product and Services
 - 2.7.4 Entek International LLC Polyethylene Battery Diaphragm Sales Quantity,

Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.7.5 Entek International LLC Recent Developments/Updates

2.8 SK Innovation Co

2.8.1 SK Innovation Co Details

2.8.2 SK Innovation Co Major Business

2.8.3 SK Innovation Co Polyethylene Battery Diaphragm Product and Services

2.8.4 SK Innovation Co Polyethylene Battery Diaphragm Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.8.5 SK Innovation Co Recent Developments/Updates

2.9 The Freudenberg Group

2.9.1 The Freudenberg Group Details

2.9.2 The Freudenberg Group Major Business

2.9.3 The Freudenberg Group Polyethylene Battery Diaphragm Product and Services

2.9.4 The Freudenberg Group Polyethylene Battery Diaphragm Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.9.5 The Freudenberg Group Recent Developments/Updates

2.10 Sumitomo Chemical Co., Ltd.

2.10.1 Sumitomo Chemical Co., Ltd. Details

2.10.2 Sumitomo Chemical Co., Ltd. Major Business

2.10.3 Sumitomo Chemical Co., Ltd. Polyethylene Battery Diaphragm Product and Services

2.10.4 Sumitomo Chemical Co., Ltd. Polyethylene Battery Diaphragm Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.10.5 Sumitomo Chemical Co., Ltd. Recent Developments/Updates

2.11 DreamWeaver International, Inc.

2.11.1 DreamWeaver International, Inc. Details

2.11.2 DreamWeaver International, Inc. Major Business

2.11.3 DreamWeaver International, Inc. Polyethylene Battery Diaphragm Product and Services

2.11.4 DreamWeaver International, Inc. Polyethylene Battery Diaphragm Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.11.5 DreamWeaver International, Inc. Recent Developments/Updates

2.12 Ube Industries, Ltd.

2.12.1 Ube Industries, Ltd. Details

2.12.2 Ube Industries, Ltd. Major Business

2.12.3 Ube Industries, Ltd. Polyethylene Battery Diaphragm Product and Services

2.12.4 Ube Industries, Ltd. Polyethylene Battery Diaphragm Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.12.5 Ube Industries, Ltd. Recent Developments/Updates

2.13 Polypore International

2.13.1 Polypore International Details

2.13.2 Polypore International Major Business

2.13.3 Polypore International Polyethylene Battery Diaphragm Product and Services

2.13.4 Polypore International Polyethylene Battery Diaphragm Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.13.5 Polypore International Recent Developments/Updates

2.14 Grepow Battery Co., Ltd.

2.14.1 Grepow Battery Co., Ltd. Details

2.14.2 Grepow Battery Co., Ltd. Major Business

2.14.3 Grepow Battery Co., Ltd. Polyethylene Battery Diaphragm Product and Services

2.14.4 Grepow Battery Co., Ltd. Polyethylene Battery Diaphragm Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.14.5 Grepow Battery Co., Ltd. Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: POLYETHYLENE BATTERY DIAPHRAGM BY MANUFACTURER

3.1 Global Polyethylene Battery Diaphragm Sales Quantity by Manufacturer (2020-2025)

3.2 Global Polyethylene Battery Diaphragm Revenue by Manufacturer (2020-2025)

3.3 Global Polyethylene Battery Diaphragm Average Price by Manufacturer (2020-2025)

3.4 Market Share Analysis (2024)

3.4.1 Producer Shipments of Polyethylene Battery Diaphragm by Manufacturer Revenue (\$MM) and Market Share (%): 2024

3.4.2 Top 3 Polyethylene Battery Diaphragm Manufacturer Market Share in 2024

3.4.3 Top 6 Polyethylene Battery Diaphragm Manufacturer Market Share in 2024

3.5 Polyethylene Battery Diaphragm Market: Overall Company Footprint Analysis

3.5.1 Polyethylene Battery Diaphragm Market: Region Footprint

3.5.2 Polyethylene Battery Diaphragm Market: Company Product Type Footprint

3.5.3 Polyethylene Battery Diaphragm Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Polyethylene Battery Diaphragm Market Size by Region

4.1.1 Global Polyethylene Battery Diaphragm Sales Quantity by Region (2020-2031)

4.1.2 Global Polyethylene Battery Diaphragm Consumption Value by Region (2020-2031)

4.1.3 Global Polyethylene Battery Diaphragm Average Price by Region (2020-2031)

4.2 North America Polyethylene Battery Diaphragm Consumption Value (2020-2031)

4.3 Europe Polyethylene Battery Diaphragm Consumption Value (2020-2031)

4.4 Asia-Pacific Polyethylene Battery Diaphragm Consumption Value (2020-2031)

4.5 South America Polyethylene Battery Diaphragm Consumption Value (2020-2031)

4.6 Middle East & Africa Polyethylene Battery Diaphragm Consumption Value (2020-2031)

5 MARKET SEGMENT BY TYPE

5.1 Global Polyethylene Battery Diaphragm Sales Quantity by Type (2020-2031)

5.2 Global Polyethylene Battery Diaphragm Consumption Value by Type (2020-2031)

5.3 Global Polyethylene Battery Diaphragm Average Price by Type (2020-2031)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Polyethylene Battery Diaphragm Sales Quantity by Application (2020-2031)

6.2 Global Polyethylene Battery Diaphragm Consumption Value by Application (2020-2031)

6.3 Global Polyethylene Battery Diaphragm Average Price by Application (2020-2031)

7 NORTH AMERICA

7.1 North America Polyethylene Battery Diaphragm Sales Quantity by Type (2020-2031)

7.2 North America Polyethylene Battery Diaphragm Sales Quantity by Application (2020-2031)

7.3 North America Polyethylene Battery Diaphragm Market Size by Country

7.3.1 North America Polyethylene Battery Diaphragm Sales Quantity by Country (2020-2031)

7.3.2 North America Polyethylene Battery Diaphragm Consumption Value by Country (2020-2031)

7.3.3 United States Market Size and Forecast (2020-2031)

7.3.4 Canada Market Size and Forecast (2020-2031)

7.3.5 Mexico Market Size and Forecast (2020-2031)

8 EUROPE

- 8.1 Europe Polyethylene Battery Diaphragm Sales Quantity by Type (2020-2031)
- 8.2 Europe Polyethylene Battery Diaphragm Sales Quantity by Application (2020-2031)
- 8.3 Europe Polyethylene Battery Diaphragm Market Size by Country
 - 8.3.1 Europe Polyethylene Battery Diaphragm Sales Quantity by Country (2020-2031)
 - 8.3.2 Europe Polyethylene Battery Diaphragm Consumption Value by Country (2020-2031)
 - 8.3.3 Germany Market Size and Forecast (2020-2031)
 - 8.3.4 France Market Size and Forecast (2020-2031)
 - 8.3.5 United Kingdom Market Size and Forecast (2020-2031)
 - 8.3.6 Russia Market Size and Forecast (2020-2031)
 - 8.3.7 Italy Market Size and Forecast (2020-2031)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Polyethylene Battery Diaphragm Sales Quantity by Type (2020-2031)
- 9.2 Asia-Pacific Polyethylene Battery Diaphragm Sales Quantity by Application (2020-2031)
- 9.3 Asia-Pacific Polyethylene Battery Diaphragm Market Size by Region
 - 9.3.1 Asia-Pacific Polyethylene Battery Diaphragm Sales Quantity by Region (2020-2031)
 - 9.3.2 Asia-Pacific Polyethylene Battery Diaphragm Consumption Value by Region (2020-2031)
 - 9.3.3 China Market Size and Forecast (2020-2031)
 - 9.3.4 Japan Market Size and Forecast (2020-2031)
 - 9.3.5 South Korea Market Size and Forecast (2020-2031)
 - 9.3.6 India Market Size and Forecast (2020-2031)
 - 9.3.7 Southeast Asia Market Size and Forecast (2020-2031)
 - 9.3.8 Australia Market Size and Forecast (2020-2031)

10 SOUTH AMERICA

- 10.1 South America Polyethylene Battery Diaphragm Sales Quantity by Type (2020-2031)
- 10.2 South America Polyethylene Battery Diaphragm Sales Quantity by Application (2020-2031)
- 10.3 South America Polyethylene Battery Diaphragm Market Size by Country
 - 10.3.1 South America Polyethylene Battery Diaphragm Sales Quantity by Country (2020-2031)

10.3.2 South America Polyethylene Battery Diaphragm Consumption Value by Country (2020-2031)

10.3.3 Brazil Market Size and Forecast (2020-2031)

10.3.4 Argentina Market Size and Forecast (2020-2031)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Polyethylene Battery Diaphragm Sales Quantity by Type (2020-2031)

11.2 Middle East & Africa Polyethylene Battery Diaphragm Sales Quantity by Application (2020-2031)

11.3 Middle East & Africa Polyethylene Battery Diaphragm Market Size by Country

11.3.1 Middle East & Africa Polyethylene Battery Diaphragm Sales Quantity by Country (2020-2031)

11.3.2 Middle East & Africa Polyethylene Battery Diaphragm Consumption Value by Country (2020-2031)

11.3.3 Turkey Market Size and Forecast (2020-2031)

11.3.4 Egypt Market Size and Forecast (2020-2031)

11.3.5 Saudi Arabia Market Size and Forecast (2020-2031)

11.3.6 South Africa Market Size and Forecast (2020-2031)

12 MARKET DYNAMICS

12.1 Polyethylene Battery Diaphragm Market Drivers

12.2 Polyethylene Battery Diaphragm Market Restraints

12.3 Polyethylene Battery Diaphragm Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Polyethylene Battery Diaphragm and Key Manufacturers

13.2 Manufacturing Costs Percentage of Polyethylene Battery Diaphragm

13.3 Polyethylene Battery Diaphragm Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Polyethylene Battery Diaphragm Typical Distributors

14.3 Polyethylene Battery Diaphragm Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Polyethylene Battery Diaphragm Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global Polyethylene Battery Diaphragm Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. Celgard, LLC Basic Information, Manufacturing Base and Competitors

Table 4. Celgard, LLC Major Business

Table 5. Celgard, LLC Polyethylene Battery Diaphragm Product and Services

Table 6. Celgard, LLC Polyethylene Battery Diaphragm Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. Celgard, LLC Recent Developments/Updates

Table 8. W-SCOPE Corporation Basic Information, Manufacturing Base and Competitors

Table 9. W-SCOPE Corporation Major Business

Table 10. W-SCOPE Corporation Polyethylene Battery Diaphragm Product and Services

Table 11. W-SCOPE Corporation Polyethylene Battery Diaphragm Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. W-SCOPE Corporation Recent Developments/Updates

Table 13. Foshan Lith Battery Material Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 14. Foshan Lith Battery Material Co., Ltd. Major Business

Table 15. Foshan Lith Battery Material Co., Ltd. Polyethylene Battery Diaphragm Product and Services

Table 16. Foshan Lith Battery Material Co., Ltd. Polyethylene Battery Diaphragm Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. Foshan Lith Battery Material Co., Ltd. Recent Developments/Updates

Table 18. Jinhui Lithium Energy Co., Ltd Basic Information, Manufacturing Base and Competitors

Table 19. Jinhui Lithium Energy Co., Ltd Major Business

Table 20. Jinhui Lithium Energy Co., Ltd Polyethylene Battery Diaphragm Product and Services

Table 21. Jinhui Lithium Energy Co., Ltd Polyethylene Battery Diaphragm Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and

Market Share (2020-2025)

Table 22. Jinhui Lithium Energy Co., Ltd Recent Developments/Updates

Table 23. Asahi Kasei Corporation Basic Information, Manufacturing Base and Competitors

Table 24. Asahi Kasei Corporation Major Business

Table 25. Asahi Kasei Corporation Polyethylene Battery Diaphragm Product and Services

Table 26. Asahi Kasei Corporation Polyethylene Battery Diaphragm Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 27. Asahi Kasei Corporation Recent Developments/Updates

Table 28. Toray Industries Basic Information, Manufacturing Base and Competitors

Table 29. Toray Industries Major Business

Table 30. Toray Industries Polyethylene Battery Diaphragm Product and Services

Table 31. Toray Industries Polyethylene Battery Diaphragm Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 32. Toray Industries Recent Developments/Updates

Table 33. Entek International LLC Basic Information, Manufacturing Base and Competitors

Table 34. Entek International LLC Major Business

Table 35. Entek International LLC Polyethylene Battery Diaphragm Product and Services

Table 36. Entek International LLC Polyethylene Battery Diaphragm Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 37. Entek International LLC Recent Developments/Updates

Table 38. SK Innovation Co Basic Information, Manufacturing Base and Competitors

Table 39. SK Innovation Co Major Business

Table 40. SK Innovation Co Polyethylene Battery Diaphragm Product and Services

Table 41. SK Innovation Co Polyethylene Battery Diaphragm Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 42. SK Innovation Co Recent Developments/Updates

Table 43. The Freudenberg Group Basic Information, Manufacturing Base and Competitors

Table 44. The Freudenberg Group Major Business

Table 45. The Freudenberg Group Polyethylene Battery Diaphragm Product and Services

Table 46. The Freudenberg Group Polyethylene Battery Diaphragm Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 47. The Freudenberg Group Recent Developments/Updates

Table 48. Sumitomo Chemical Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 49. Sumitomo Chemical Co., Ltd. Major Business

Table 50. Sumitomo Chemical Co., Ltd. Polyethylene Battery Diaphragm Product and Services

Table 51. Sumitomo Chemical Co., Ltd. Polyethylene Battery Diaphragm Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 52. Sumitomo Chemical Co., Ltd. Recent Developments/Updates

Table 53. DreamWeaver International, Inc. Basic Information, Manufacturing Base and Competitors

Table 54. DreamWeaver International, Inc. Major Business

Table 55. DreamWeaver International, Inc. Polyethylene Battery Diaphragm Product and Services

Table 56. DreamWeaver International, Inc. Polyethylene Battery Diaphragm Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 57. DreamWeaver International, Inc. Recent Developments/Updates

Table 58. Ube Industries, Ltd. Basic Information, Manufacturing Base and Competitors

Table 59. Ube Industries, Ltd. Major Business

Table 60. Ube Industries, Ltd. Polyethylene Battery Diaphragm Product and Services

Table 61. Ube Industries, Ltd. Polyethylene Battery Diaphragm Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 62. Ube Industries, Ltd. Recent Developments/Updates

Table 63. Polypore International Basic Information, Manufacturing Base and Competitors

Table 64. Polypore International Major Business

Table 65. Polypore International Polyethylene Battery Diaphragm Product and Services

Table 66. Polypore International Polyethylene Battery Diaphragm Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 67. Polypore International Recent Developments/Updates

Table 68. Grepow Battery Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 69. Grepow Battery Co., Ltd. Major Business

Table 70. Grepow Battery Co., Ltd. Polyethylene Battery Diaphragm Product and Services

Table 71. Grepow Battery Co., Ltd. Polyethylene Battery Diaphragm Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 72. Grepow Battery Co., Ltd. Recent Developments/Updates

Table 73. Global Polyethylene Battery Diaphragm Sales Quantity by Manufacturer (2020-2025) & (Tons)

Table 74. Global Polyethylene Battery Diaphragm Revenue by Manufacturer (2020-2025) & (USD Million)

Table 75. Global Polyethylene Battery Diaphragm Average Price by Manufacturer (2020-2025) & (US\$/Ton)

Table 76. Market Position of Manufacturers in Polyethylene Battery Diaphragm, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024

Table 77. Head Office and Polyethylene Battery Diaphragm Production Site of Key Manufacturer

Table 78. Polyethylene Battery Diaphragm Market: Company Product Type Footprint

Table 79. Polyethylene Battery Diaphragm Market: Company Product Application Footprint

Table 80. Polyethylene Battery Diaphragm New Market Entrants and Barriers to Market Entry

Table 81. Polyethylene Battery Diaphragm Mergers, Acquisition, Agreements, and Collaborations

Table 82. Global Polyethylene Battery Diaphragm Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR

Table 83. Global Polyethylene Battery Diaphragm Sales Quantity by Region (2020-2025) & (Tons)

Table 84. Global Polyethylene Battery Diaphragm Sales Quantity by Region (2026-2031) & (Tons)

Table 85. Global Polyethylene Battery Diaphragm Consumption Value by Region (2020-2025) & (USD Million)

Table 86. Global Polyethylene Battery Diaphragm Consumption Value by Region (2026-2031) & (USD Million)

Table 87. Global Polyethylene Battery Diaphragm Average Price by Region (2020-2025) & (US\$/Ton)

Table 88. Global Polyethylene Battery Diaphragm Average Price by Region (2026-2031) & (US\$/Ton)

Table 89. Global Polyethylene Battery Diaphragm Sales Quantity by Type (2020-2025)

& (Tons)

Table 90. Global Polyethylene Battery Diaphragm Sales Quantity by Type (2026-2031)

& (Tons)

Table 91. Global Polyethylene Battery Diaphragm Consumption Value by Type
(2020-2025) & (USD Million)

Table 92. Global Polyethylene Battery Diaphragm Consumption Value by Type
(2026-2031) & (USD Million)

Table 93. Global Polyethylene Battery Diaphragm Average Price by Type (2020-2025)
& (US\$/Ton)

Table 94. Global Polyethylene Battery Diaphragm Average Price by Type (2026-2031)
& (US\$/Ton)

Table 95. Global Polyethylene Battery Diaphragm Sales Quantity by Application
(2020-2025) & (Tons)

Table 96. Global Polyethylene Battery Diaphragm Sales Quantity by Application
(2026-2031) & (Tons)

Table 97. Global Polyethylene Battery Diaphragm Consumption Value by Application
(2020-2025) & (USD Million)

Table 98. Global Polyethylene Battery Diaphragm Consumption Value by Application
(2026-2031) & (USD Million)

Table 99. Global Polyethylene Battery Diaphragm Average Price by Application
(2020-2025) & (US\$/Ton)

Table 100. Global Polyethylene Battery Diaphragm Average Price by Application
(2026-2031) & (US\$/Ton)

Table 101. North America Polyethylene Battery Diaphragm Sales Quantity by Type
(2020-2025) & (Tons)

Table 102. North America Polyethylene Battery Diaphragm Sales Quantity by Type
(2026-2031) & (Tons)

Table 103. North America Polyethylene Battery Diaphragm Sales Quantity by
Application (2020-2025) & (Tons)

Table 104. North America Polyethylene Battery Diaphragm Sales Quantity by
Application (2026-2031) & (Tons)

Table 105. North America Polyethylene Battery Diaphragm Sales Quantity by Country
(2020-2025) & (Tons)

Table 106. North America Polyethylene Battery Diaphragm Sales Quantity by Country
(2026-2031) & (Tons)

Table 107. North America Polyethylene Battery Diaphragm Consumption Value by
Country (2020-2025) & (USD Million)

Table 108. North America Polyethylene Battery Diaphragm Consumption Value by
Country (2026-2031) & (USD Million)

Table 109. Europe Polyethylene Battery Diaphragm Sales Quantity by Type
(2020-2025) & (Tons)

Table 110. Europe Polyethylene Battery Diaphragm Sales Quantity by Type
(2026-2031) & (Tons)

Table 111. Europe Polyethylene Battery Diaphragm Sales Quantity by Application
(2020-2025) & (Tons)

Table 112. Europe Polyethylene Battery Diaphragm Sales Quantity by Application
(2026-2031) & (Tons)

Table 113. Europe Polyethylene Battery Diaphragm Sales Quantity by Country
(2020-2025) & (Tons)

Table 114. Europe Polyethylene Battery Diaphragm Sales Quantity by Country
(2026-2031) & (Tons)

Table 115. Europe Polyethylene Battery Diaphragm Consumption Value by Country
(2020-2025) & (USD Million)

Table 116. Europe Polyethylene Battery Diaphragm Consumption Value by Country
(2026-2031) & (USD Million)

Table 117. Asia-Pacific Polyethylene Battery Diaphragm Sales Quantity by Type
(2020-2025) & (Tons)

Table 118. Asia-Pacific Polyethylene Battery Diaphragm Sales Quantity by Type
(2026-2031) & (Tons)

Table 119. Asia-Pacific Polyethylene Battery Diaphragm Sales Quantity by Application
(2020-2025) & (Tons)

Table 120. Asia-Pacific Polyethylene Battery Diaphragm Sales Quantity by Application
(2026-2031) & (Tons)

Table 121. Asia-Pacific Polyethylene Battery Diaphragm Sales Quantity by Region
(2020-2025) & (Tons)

Table 122. Asia-Pacific Polyethylene Battery Diaphragm Sales Quantity by Region
(2026-2031) & (Tons)

Table 123. Asia-Pacific Polyethylene Battery Diaphragm Consumption Value by Region
(2020-2025) & (USD Million)

Table 124. Asia-Pacific Polyethylene Battery Diaphragm Consumption Value by Region
(2026-2031) & (USD Million)

Table 125. South America Polyethylene Battery Diaphragm Sales Quantity by Type
(2020-2025) & (Tons)

Table 126. South America Polyethylene Battery Diaphragm Sales Quantity by Type
(2026-2031) & (Tons)

Table 127. South America Polyethylene Battery Diaphragm Sales Quantity by
Application (2020-2025) & (Tons)

Table 128. South America Polyethylene Battery Diaphragm Sales Quantity by

Application (2026-2031) & (Tons)

Table 129. South America Polyethylene Battery Diaphragm Sales Quantity by Country (2020-2025) & (Tons)

Table 130. South America Polyethylene Battery Diaphragm Sales Quantity by Country (2026-2031) & (Tons)

Table 131. South America Polyethylene Battery Diaphragm Consumption Value by Country (2020-2025) & (USD Million)

Table 132. South America Polyethylene Battery Diaphragm Consumption Value by Country (2026-2031) & (USD Million)

Table 133. Middle East & Africa Polyethylene Battery Diaphragm Sales Quantity by Type (2020-2025) & (Tons)

Table 134. Middle East & Africa Polyethylene Battery Diaphragm Sales Quantity by Type (2026-2031) & (Tons)

Table 135. Middle East & Africa Polyethylene Battery Diaphragm Sales Quantity by Application (2020-2025) & (Tons)

Table 136. Middle East & Africa Polyethylene Battery Diaphragm Sales Quantity by Application (2026-2031) & (Tons)

Table 137. Middle East & Africa Polyethylene Battery Diaphragm Sales Quantity by Country (2020-2025) & (Tons)

Table 138. Middle East & Africa Polyethylene Battery Diaphragm Sales Quantity by Country (2026-2031) & (Tons)

Table 139. Middle East & Africa Polyethylene Battery Diaphragm Consumption Value by Country (2020-2025) & (USD Million)

Table 140. Middle East & Africa Polyethylene Battery Diaphragm Consumption Value by Country (2026-2031) & (USD Million)

Table 141. Polyethylene Battery Diaphragm Raw Material

Table 142. Key Manufacturers of Polyethylene Battery Diaphragm Raw Materials

Table 143. Polyethylene Battery Diaphragm Typical Distributors

Table 144. Polyethylene Battery Diaphragm Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Polyethylene Battery Diaphragm Picture

Figure 2. Global Polyethylene Battery Diaphragm Revenue by Type, (USD Million), 2020 & 2024 & 2031

Figure 3. Global Polyethylene Battery Diaphragm Revenue Market Share by Type in 2024

Figure 4. Woven Films Examples

Figure 5. Non Woven Films Examples

Figure 6. Global Polyethylene Battery Diaphragm Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Figure 7. Global Polyethylene Battery Diaphragm Revenue Market Share by Application in 2024

Figure 8. Mechanical Engineering Examples

Figure 9. Automotive Industry Examples

Figure 10. Aerospace Examples

Figure 11. Oil And Gas Examples

Figure 12. Chemical Industry Examples

Figure 13. Medical Technology Examples

Figure 14. Electrical Industry Examples

Figure 15. Global Polyethylene Battery Diaphragm Consumption Value, (USD Million): 2020 & 2024 & 2031

Figure 16. Global Polyethylene Battery Diaphragm Consumption Value and Forecast (2020-2031) & (USD Million)

Figure 17. Global Polyethylene Battery Diaphragm Sales Quantity (2020-2031) & (Tons)

Figure 18. Global Polyethylene Battery Diaphragm Price (2020-2031) & (US\$/Ton)

Figure 19. Global Polyethylene Battery Diaphragm Sales Quantity Market Share by Manufacturer in 2024

Figure 20. Global Polyethylene Battery Diaphragm Revenue Market Share by Manufacturer in 2024

Figure 21. Producer Shipments of Polyethylene Battery Diaphragm by Manufacturer Sales (\$MM) and Market Share (%): 2024

Figure 22. Top 3 Polyethylene Battery Diaphragm Manufacturer (Revenue) Market Share in 2024

Figure 23. Top 6 Polyethylene Battery Diaphragm Manufacturer (Revenue) Market Share in 2024

Figure 24. Global Polyethylene Battery Diaphragm Sales Quantity Market Share by

Region (2020-2031)

Figure 25. Global Polyethylene Battery Diaphragm Consumption Value Market Share by Region (2020-2031)

Figure 26. North America Polyethylene Battery Diaphragm Consumption Value (2020-2031) & (USD Million)

Figure 27. Europe Polyethylene Battery Diaphragm Consumption Value (2020-2031) & (USD Million)

Figure 28. Asia-Pacific Polyethylene Battery Diaphragm Consumption Value (2020-2031) & (USD Million)

Figure 29. South America Polyethylene Battery Diaphragm Consumption Value (2020-2031) & (USD Million)

Figure 30. Middle East & Africa Polyethylene Battery Diaphragm Consumption Value (2020-2031) & (USD Million)

Figure 31. Global Polyethylene Battery Diaphragm Sales Quantity Market Share by Type (2020-2031)

Figure 32. Global Polyethylene Battery Diaphragm Consumption Value Market Share by Type (2020-2031)

Figure 33. Global Polyethylene Battery Diaphragm Average Price by Type (2020-2031) & (US\$/Ton)

Figure 34. Global Polyethylene Battery Diaphragm Sales Quantity Market Share by Application (2020-2031)

Figure 35. Global Polyethylene Battery Diaphragm Revenue Market Share by Application (2020-2031)

Figure 36. Global Polyethylene Battery Diaphragm Average Price by Application (2020-2031) & (US\$/Ton)

Figure 37. North America Polyethylene Battery Diaphragm Sales Quantity Market Share by Type (2020-2031)

Figure 38. North America Polyethylene Battery Diaphragm Sales Quantity Market Share by Application (2020-2031)

Figure 39. North America Polyethylene Battery Diaphragm Sales Quantity Market Share by Country (2020-2031)

Figure 40. North America Polyethylene Battery Diaphragm Consumption Value Market Share by Country (2020-2031)

Figure 41. United States Polyethylene Battery Diaphragm Consumption Value (2020-2031) & (USD Million)

Figure 42. Canada Polyethylene Battery Diaphragm Consumption Value (2020-2031) & (USD Million)

Figure 43. Mexico Polyethylene Battery Diaphragm Consumption Value (2020-2031) & (USD Million)

Figure 44. Europe Polyethylene Battery Diaphragm Sales Quantity Market Share by Type (2020-2031)

Figure 45. Europe Polyethylene Battery Diaphragm Sales Quantity Market Share by Application (2020-2031)

Figure 46. Europe Polyethylene Battery Diaphragm Sales Quantity Market Share by Country (2020-2031)

Figure 47. Europe Polyethylene Battery Diaphragm Consumption Value Market Share by Country (2020-2031)

Figure 48. Germany Polyethylene Battery Diaphragm Consumption Value (2020-2031) & (USD Million)

Figure 49. France Polyethylene Battery Diaphragm Consumption Value (2020-2031) & (USD Million)

Figure 50. United Kingdom Polyethylene Battery Diaphragm Consumption Value (2020-2031) & (USD Million)

Figure 51. Russia Polyethylene Battery Diaphragm Consumption Value (2020-2031) & (USD Million)

Figure 52. Italy Polyethylene Battery Diaphragm Consumption Value (2020-2031) & (USD Million)

Figure 53. Asia-Pacific Polyethylene Battery Diaphragm Sales Quantity Market Share by Type (2020-2031)

Figure 54. Asia-Pacific Polyethylene Battery Diaphragm Sales Quantity Market Share by Application (2020-2031)

Figure 55. Asia-Pacific Polyethylene Battery Diaphragm Sales Quantity Market Share by Region (2020-2031)

Figure 56. Asia-Pacific Polyethylene Battery Diaphragm Consumption Value Market Share by Region (2020-2031)

Figure 57. China Polyethylene Battery Diaphragm Consumption Value (2020-2031) & (USD Million)

Figure 58. Japan Polyethylene Battery Diaphragm Consumption Value (2020-2031) & (USD Million)

Figure 59. South Korea Polyethylene Battery Diaphragm Consumption Value (2020-2031) & (USD Million)

Figure 60. India Polyethylene Battery Diaphragm Consumption Value (2020-2031) & (USD Million)

Figure 61. Southeast Asia Polyethylene Battery Diaphragm Consumption Value (2020-2031) & (USD Million)

Figure 62. Australia Polyethylene Battery Diaphragm Consumption Value (2020-2031) & (USD Million)

Figure 63. South America Polyethylene Battery Diaphragm Sales Quantity Market

Share by Type (2020-2031)

Figure 64. South America Polyethylene Battery Diaphragm Sales Quantity Market

Share by Application (2020-2031)

Figure 65. South America Polyethylene Battery Diaphragm Sales Quantity Market

Share by Country (2020-2031)

Figure 66. South America Polyethylene Battery Diaphragm Consumption Value Market

Share by Country (2020-2031)

Figure 67. Brazil Polyethylene Battery Diaphragm Consumption Value (2020-2031) & (USD Million)

Figure 68. Argentina Polyethylene Battery Diaphragm Consumption Value (2020-2031) & (USD Million)

Figure 69. Middle East & Africa Polyethylene Battery Diaphragm Sales Quantity Market Share by Type (2020-2031)

Figure 70. Middle East & Africa Polyethylene Battery Diaphragm Sales Quantity Market Share by Application (2020-2031)

Figure 71. Middle East & Africa Polyethylene Battery Diaphragm Sales Quantity Market Share by Country (2020-2031)

Figure 72. Middle East & Africa Polyethylene Battery Diaphragm Consumption Value Market Share by Country (2020-2031)

Figure 73. Turkey Polyethylene Battery Diaphragm Consumption Value (2020-2031) & (USD Million)

Figure 74. Egypt Polyethylene Battery Diaphragm Consumption Value (2020-2031) & (USD Million)

Figure 75. Saudi Arabia Polyethylene Battery Diaphragm Consumption Value (2020-2031) & (USD Million)

Figure 76. South Africa Polyethylene Battery Diaphragm Consumption Value (2020-2031) & (USD Million)

Figure 77. Polyethylene Battery Diaphragm Market Drivers

Figure 78. Polyethylene Battery Diaphragm Market Restraints

Figure 79. Polyethylene Battery Diaphragm Market Trends

Figure 80. Porters Five Forces Analysis

Figure 81. Manufacturing Cost Structure Analysis of Polyethylene Battery Diaphragm in 2024

Figure 82. Manufacturing Process Analysis of Polyethylene Battery Diaphragm

Figure 83. Polyethylene Battery Diaphragm Industrial Chain

Figure 84. Sales Channel: Direct to End-User vs Distributors

Figure 85. Direct Channel Pros & Cons

Figure 86. Indirect Channel Pros & Cons

Figure 87. Methodology

Figure 88. Research Process and Data Source

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