

Global PHA Foam Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global PHA Foam market size is expected to reach \$ 672 million by 2032, rising at a market growth of 11.7% CAGR during the forecast period (2026-2032).

PHA foamed material is a green porous foamed product prepared by using polyhydroxyalkanoate (PHA) biodegradable resin as the base material through physical or chemical foaming, extrusion and molding processes. It features excellent cushioning, heat insulation, sound insulation and lightweight performance, and can be completely biodegraded in natural environments without harmful residues. As an eco-friendly alternative to traditional petroleum-based foamed plastics, it is widely used in cushioning packaging, cold chain insulation, disposable products and daily supplies. The global market size of PHA foamed materials reached 300 million US dollars in 2025.

PHA foamed materials hold distinct market shares across regions and applications, shaped by policy support, consumer preference for sustainability, and material performance. Regions with strict plastic waste rules take larger shares, while packaging and disposable goods lead in application demand, followed by insulation and biomedical uses. The competitive landscape is dynamic: some focus on core resin and foaming tech, others on cost control and application customization; collaboration between material makers and end-users is common, and innovation in fermentation, foaming, and modification drives differentiation. The outlook is positive: rising eco-policies and circular economy goals boost demand, while tech progress lowers costs and improves performance, expanding use scenarios. Challenges like cost and processing remain, but steady tech and market maturity will drive wider adoption as a green alternative to traditional foams.

This report studies the global PHA Foam production, demand, key manufacturers, and

key regions.

This report is a detailed and comprehensive analysis of the world market for PHA Foam 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 PHA Foam that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global PHA Foam total production and demand, 2021-2032, (Tons)

Global PHA Foam total production value, 2021-2032, (USD Million)

Global PHA Foam production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global PHA Foam consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: PHA Foam domestic production, consumption, key domestic manufacturers and share

Global PHA Foam production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global PHA Foam production by Substrate Type Classification, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global PHA Foam production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global PHA Foam 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 Dongsung Chemical, WinCup, Helian Polymers B.V., Volar Plastic Oy, Kaneka, Danimer Scientific, Tianjin GreenBio Materials Co., Ltd., 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 PHA Foam market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by

manufacturer, by Substrate Type Classification, 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 PHA Foam Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global PHA Foam Market, Segmentation by Substrate Type Classification:

PHB

PHBV

PHBHHx

P34HB

Others

Global PHA Foam Market, Segmentation by Morphology:

Foam Beads

Foam Sheet

Foam Board

Others

Global PHA Foam Market, Segmentation by Process Classification:

Chemical Foaming Method

Physical Foaming Method

Global PHA Foam Market, Segmentation by Application:

Consumer Goods

Packaging and Transportation

Biomedical

Industrial and Environmental

Others

Companies Profiled:

Dongsung Chemical

WinCup

Helian Polymers B.V.

Volar Plastic Oy

Kaneka

Danimer Scientific

Tianjin GreenBio Materials Co., Ltd.

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World PHA Foam Production Value by Manufacturer (2021-2026)
- 3.2 World PHA Foam Production by Manufacturer (2021-2026)
- 3.3 World PHA Foam Average Price by Manufacturer (2021-2026)
- 3.4 PHA Foam Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global PHA Foam Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for PHA Foam in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for PHA Foam in 2025
- 3.6 PHA Foam Market: Overall Company Footprint Analysis
 - 3.6.1 PHA Foam Market: Region Footprint
 - 3.6.2 PHA Foam Market: Company Product Type Footprint
 - 3.6.3 PHA Foam 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: PHA Foam Production Value Comparison
 - 4.1.1 United States VS China: PHA Foam Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: PHA Foam Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: PHA Foam Production Comparison
 - 4.2.1 United States VS China: PHA Foam Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: PHA Foam Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: PHA Foam Consumption Comparison
 - 4.3.1 United States VS China: PHA Foam Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: PHA Foam Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based PHA Foam Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based PHA Foam Manufacturers, Headquarters and Production

Site (States, Country)

4.4.2 United States Based Manufacturers PHA Foam Production Value (2021-2026)

4.4.3 United States Based Manufacturers PHA Foam Production (2021-2026)

4.5 China Based PHA Foam Manufacturers and Market Share

4.5.1 China Based PHA Foam Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers PHA Foam Production Value (2021-2026)

4.5.3 China Based Manufacturers PHA Foam Production (2021-2026)

4.6 Rest of World Based PHA Foam Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based PHA Foam Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers PHA Foam Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers PHA Foam Production (2021-2026)

5 MARKET ANALYSIS BY SUBSTRATE TYPE CLASSIFICATION

5.1 World PHA Foam Market Size Overview by Substrate Type Classification: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Substrate Type Classification

5.2.1 PHB

5.2.2 PHBV

5.2.3 PHBHHx

5.2.4 P34HB

5.2.5 Others

5.3 Market Segment by Substrate Type Classification

5.3.1 World PHA Foam Production by Substrate Type Classification (2021-2032)

5.3.2 World PHA Foam Production Value by Substrate Type Classification (2021-2032)

5.3.3 World PHA Foam Average Price by Substrate Type Classification (2021-2032)

6 MARKET ANALYSIS BY MORPHOLOGY

6.1 World PHA Foam Market Size Overview by Morphology: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Morphology

6.2.1 Foam Beads

6.2.2 Foam Sheet

6.2.3 Foam Board

6.2.4 Others

6.3 Market Segment by Morphology

- 6.3.1 World PHA Foam Production by Morphology (2021-2032)
- 6.3.2 World PHA Foam Production Value by Morphology (2021-2032)
- 6.3.3 World PHA Foam Average Price by Morphology (2021-2032)

7 MARKET ANALYSIS BY PROCESS CLASSIFICATION

- 7.1 World PHA Foam Market Size Overview by Process Classification: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Process Classification
 - 7.2.1 Chemical Foaming Method
 - 7.2.2 Physical Foaming Method
- 7.3 Market Segment by Process Classification
 - 7.3.1 World PHA Foam Production by Process Classification (2021-2032)
 - 7.3.2 World PHA Foam Production Value by Process Classification (2021-2032)
 - 7.3.3 World PHA Foam Average Price by Process Classification (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

- 8.1 World PHA Foam Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application
 - 8.2.1 Consumer Goods
 - 8.2.2 Packaging and Transportation
 - 8.2.3 Biomedical
 - 8.2.4 Industrial and Environmental
 - 8.2.5 Others
- 8.3 Market Segment by Application
 - 8.3.1 World PHA Foam Production by Application (2021-2032)
 - 8.3.2 World PHA Foam Production Value by Application (2021-2032)
 - 8.3.3 World PHA Foam Average Price by Application (2021-2032)

9 COMPANY PROFILES

- 9.1 Dongsung Chemical
 - 9.1.1 Dongsung Chemical Details
 - 9.1.2 Dongsung Chemical Major Business
 - 9.1.3 Dongsung Chemical PHA Foam Product and Services
 - 9.1.4 Dongsung Chemical PHA Foam Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.1.5 Dongsung Chemical Recent Developments/Updates

- 9.1.6 Dongsung Chemical Competitive Strengths & Weaknesses
- 9.2 WinCup
 - 9.2.1 WinCup Details
 - 9.2.2 WinCup Major Business
 - 9.2.3 WinCup PHA Foam Product and Services
 - 9.2.4 WinCup PHA Foam Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 WinCup Recent Developments/Updates
 - 9.2.6 WinCup Competitive Strengths & Weaknesses
- 9.3 Helian Polymers B.V.
 - 9.3.1 Helian Polymers B.V. Details
 - 9.3.2 Helian Polymers B.V. Major Business
 - 9.3.3 Helian Polymers B.V. PHA Foam Product and Services
 - 9.3.4 Helian Polymers B.V. PHA Foam Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Helian Polymers B.V. Recent Developments/Updates
 - 9.3.6 Helian Polymers B.V. Competitive Strengths & Weaknesses
- 9.4 Volar Plastic Oy
 - 9.4.1 Volar Plastic Oy Details
 - 9.4.2 Volar Plastic Oy Major Business
 - 9.4.3 Volar Plastic Oy PHA Foam Product and Services
 - 9.4.4 Volar Plastic Oy PHA Foam Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Volar Plastic Oy Recent Developments/Updates
 - 9.4.6 Volar Plastic Oy Competitive Strengths & Weaknesses
- 9.5 Kaneka
 - 9.5.1 Kaneka Details
 - 9.5.2 Kaneka Major Business
 - 9.5.3 Kaneka PHA Foam Product and Services
 - 9.5.4 Kaneka PHA Foam Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Kaneka Recent Developments/Updates
 - 9.5.6 Kaneka Competitive Strengths & Weaknesses
- 9.6 Danimer Scientific
 - 9.6.1 Danimer Scientific Details
 - 9.6.2 Danimer Scientific Major Business
 - 9.6.3 Danimer Scientific PHA Foam Product and Services
 - 9.6.4 Danimer Scientific PHA Foam Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.6.5 Danimer Scientific Recent Developments/Updates
- 9.6.6 Danimer Scientific Competitive Strengths & Weaknesses
- 9.7 Tianjin GreenBio Materials Co., Ltd.
 - 9.7.1 Tianjin GreenBio Materials Co., Ltd. Details
 - 9.7.2 Tianjin GreenBio Materials Co., Ltd. Major Business
 - 9.7.3 Tianjin GreenBio Materials Co., Ltd. PHA Foam Product and Services
 - 9.7.4 Tianjin GreenBio Materials Co., Ltd. PHA Foam Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Tianjin GreenBio Materials Co., Ltd. Recent Developments/Updates
 - 9.7.6 Tianjin GreenBio Materials Co., Ltd. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 PHA Foam Industry Chain
- 10.2 PHA Foam Upstream Analysis
 - 10.2.1 PHA Foam Core Raw Materials
 - 10.2.2 Main Manufacturers of PHA Foam Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 PHA Foam Production Mode
- 10.6 PHA Foam Procurement Model
- 10.7 PHA Foam Industry Sales Model and Sales Channels
 - 10.7.1 PHA Foam Sales Model
 - 10.7.2 PHA Foam 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 PHA Foam Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World PHA Foam Production Value by Region (2021-2026) & (USD Million)

Table 3. World PHA Foam Production Value by Region (2027-2032) & (USD Million)

Table 4. World PHA Foam Production Value Market Share by Region (2021-2026)

Table 5. World PHA Foam Production Value Market Share by Region (2027-2032)

Table 6. World PHA Foam Production by Region (2021-2026) & (Tons)

Table 7. World PHA Foam Production by Region (2027-2032) & (Tons)

Table 8. World PHA Foam Production Market Share by Region (2021-2026)

Table 9. World PHA Foam Production Market Share by Region (2027-2032)

Table 10. World PHA Foam Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World PHA Foam Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. PHA Foam Major Market Trends

Table 13. World PHA Foam Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World PHA Foam Consumption by Region (2021-2026) & (Tons)

Table 15. World PHA Foam Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World PHA Foam Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key PHA Foam Producers in 2025

Table 18. World PHA Foam Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key PHA Foam Producers in 2025

Table 20. World PHA Foam Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global PHA Foam Company Evaluation Quadrant

Table 22. World PHA Foam Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and PHA Foam Production Site of Key Manufacturer

Table 24. PHA Foam Market: Company Product Type Footprint

Table 25. PHA Foam Market: Company Product Application Footprint

Table 26. PHA Foam Competitive Factors

Table 27. PHA Foam New Entrant and Capacity Expansion Plans

Table 28. PHA Foam Mergers & Acquisitions Activity

Table 29. United States VS China PHA Foam Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China PHA Foam Production Comparison, (2021 & 2025 &

2032) & (Tons)

Table 31. United States VS China PHA Foam Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based PHA Foam Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers PHA Foam Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers PHA Foam Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers PHA Foam Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers PHA Foam Production Market Share (2021-2026)

Table 37. China Based PHA Foam Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers PHA Foam Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers PHA Foam Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers PHA Foam Production, (2021-2026) & (Tons)

Table 41. China Based Manufacturers PHA Foam Production Market Share (2021-2026)

Table 42. Rest of World Based PHA Foam Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers PHA Foam Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers PHA Foam Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers PHA Foam Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers PHA Foam Production Market Share (2021-2026)

Table 47. World PHA Foam Production Value by Substrate Type Classification, (USD Million), 2021 & 2025 & 2032

Table 48. World PHA Foam Production by Substrate Type Classification (2021-2026) & (Tons)

Table 49. World PHA Foam Production by Substrate Type Classification (2027-2032) & (Tons)

Table 50. World PHA Foam Production Value by Substrate Type Classification

(2021-2026) & (USD Million)

Table 51. World PHA Foam Production Value by Substrate Type Classification

(2027-2032) & (USD Million)

Table 52. World PHA Foam Average Price by Substrate Type Classification

(2021-2026) & (US\$/Ton)

Table 53. World PHA Foam Average Price by Substrate Type Classification

(2027-2032) & (US\$/Ton)

Table 54. World PHA Foam Production Value by Morphology, (USD Million), 2021 & 2025 & 2032

Table 55. World PHA Foam Production by Morphology (2021-2026) & (Tons)

Table 56. World PHA Foam Production by Morphology (2027-2032) & (Tons)

Table 57. World PHA Foam Production Value by Morphology (2021-2026) & (USD Million)

Table 58. World PHA Foam Production Value by Morphology (2027-2032) & (USD Million)

Table 59. World PHA Foam Average Price by Morphology (2021-2026) & (US\$/Ton)

Table 60. World PHA Foam Average Price by Morphology (2027-2032) & (US\$/Ton)

Table 61. World PHA Foam Production Value by Process Classification, (USD Million), 2021 & 2025 & 2032

Table 62. World PHA Foam Production by Process Classification (2021-2026) & (Tons)

Table 63. World PHA Foam Production by Process Classification (2027-2032) & (Tons)

Table 64. World PHA Foam Production Value by Process Classification (2021-2026) & (USD Million)

Table 65. World PHA Foam Production Value by Process Classification (2027-2032) & (USD Million)

Table 66. World PHA Foam Average Price by Process Classification (2021-2026) & (US\$/Ton)

Table 67. World PHA Foam Average Price by Process Classification (2027-2032) & (US\$/Ton)

Table 68. World PHA Foam Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World PHA Foam Production by Application (2021-2026) & (Tons)

Table 70. World PHA Foam Production by Application (2027-2032) & (Tons)

Table 71. World PHA Foam Production Value by Application (2021-2026) & (USD Million)

Table 72. World PHA Foam Production Value by Application (2027-2032) & (USD Million)

Table 73. World PHA Foam Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World PHA Foam Average Price by Application (2027-2032) & (US\$/Ton)

- Table 75. Dongsung Chemical Basic Information, Manufacturing Base and Competitors
- Table 76. Dongsung Chemical Major Business
- Table 77. Dongsung Chemical PHA Foam Product and Services
- Table 78. Dongsung Chemical PHA Foam Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 79. Dongsung Chemical Recent Developments/Updates
- Table 80. Dongsung Chemical Competitive Strengths & Weaknesses
- Table 81. WinCup Basic Information, Manufacturing Base and Competitors
- Table 82. WinCup Major Business
- Table 83. WinCup PHA Foam Product and Services
- Table 84. WinCup PHA Foam Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. WinCup Recent Developments/Updates
- Table 86. WinCup Competitive Strengths & Weaknesses
- Table 87. Helian Polymers B.V. Basic Information, Manufacturing Base and Competitors
- Table 88. Helian Polymers B.V. Major Business
- Table 89. Helian Polymers B.V. PHA Foam Product and Services
- Table 90. Helian Polymers B.V. PHA Foam Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Helian Polymers B.V. Recent Developments/Updates
- Table 92. Helian Polymers B.V. Competitive Strengths & Weaknesses
- Table 93. Volar Plastic Oy Basic Information, Manufacturing Base and Competitors
- Table 94. Volar Plastic Oy Major Business
- Table 95. Volar Plastic Oy PHA Foam Product and Services
- Table 96. Volar Plastic Oy PHA Foam Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Volar Plastic Oy Recent Developments/Updates
- Table 98. Volar Plastic Oy Competitive Strengths & Weaknesses
- Table 99. Kaneka Basic Information, Manufacturing Base and Competitors
- Table 100. Kaneka Major Business
- Table 101. Kaneka PHA Foam Product and Services
- Table 102. Kaneka PHA Foam Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Kaneka Recent Developments/Updates
- Table 104. Kaneka Competitive Strengths & Weaknesses
- Table 105. Danimer Scientific Basic Information, Manufacturing Base and Competitors
- Table 106. Danimer Scientific Major Business
- Table 107. Danimer Scientific PHA Foam Product and Services
- Table 108. Danimer Scientific PHA Foam Production (Tons), Price (US\$/Ton),

Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Danimer Scientific Recent Developments/Updates

Table 110. Danimer Scientific Competitive Strengths & Weaknesses

Table 111. Tianjin GreenBio Materials Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 112. Tianjin GreenBio Materials Co., Ltd. Major Business

Table 113. Tianjin GreenBio Materials Co., Ltd. PHA Foam Product and Services

Table 114. Tianjin GreenBio Materials Co., Ltd. PHA Foam Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Tianjin GreenBio Materials Co., Ltd. Recent Developments/Updates

Table 116. Tianjin GreenBio Materials Co., Ltd. Competitive Strengths & Weaknesses

Table 117. Global Key Players of PHA Foam Upstream (Raw Materials)

Table 118. Global PHA Foam Typical Customers

Table 119. PHA Foam Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. PHA Foam Picture

Figure 2. World PHA Foam Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World PHA Foam Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World PHA Foam Production (2021-2032) & (Tons)

Figure 5. World PHA Foam Average Price (2021-2032) & (US\$/Ton)

Figure 6. World PHA Foam Production Value Market Share by Region (2021-2032)

Figure 7. World PHA Foam Production Market Share by Region (2021-2032)

Figure 8. North America PHA Foam Production (2021-2032) & (Tons)

Figure 9. Europe PHA Foam Production (2021-2032) & (Tons)

Figure 10. China PHA Foam Production (2021-2032) & (Tons)

Figure 11. Japan PHA Foam Production (2021-2032) & (Tons)

Figure 12. India PHA Foam Production (2021-2032) & (Tons)

Figure 13. Southeast Asia PHA Foam Production (2021-2032) & (Tons)

Figure 14. PHA Foam Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World PHA Foam Consumption (2021-2032) & (Tons)

Figure 17. World PHA Foam Consumption Market Share by Region (2021-2032)

Figure 18. United States PHA Foam Consumption (2021-2032) & (Tons)

Figure 19. China PHA Foam Consumption (2021-2032) & (Tons)

Figure 20. Europe PHA Foam Consumption (2021-2032) & (Tons)

Figure 21. Japan PHA Foam Consumption (2021-2032) & (Tons)

Figure 22. South Korea PHA Foam Consumption (2021-2032) & (Tons)

Figure 23. ASEAN PHA Foam Consumption (2021-2032) & (Tons)

Figure 24. India PHA Foam Consumption (2021-2032) & (Tons)

Figure 25. Producer Shipments of PHA Foam by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for PHA Foam Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for PHA Foam Markets in 2025

Figure 28. United States VS China: PHA Foam Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: PHA Foam Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: PHA Foam Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers PHA Foam Production Market Share

2025

Figure 32. China Based Manufacturers PHA Foam Production Market Share 2025

Figure 33. Rest of World Based Manufacturers PHA Foam Production Market Share 2025

Figure 34. World PHA Foam Production Value by Substrate Type Classification, (USD Million), 2021 & 2025 & 2032

Figure 35. World PHA Foam Production Value Market Share by Substrate Type Classification in 2025

Figure 36. PHB

Figure 37. PHBV

Figure 38. PHBHHx

Figure 39. P34HB

Figure 40. Others

Figure 41. World PHA Foam Production Market Share by Substrate Type Classification (2021-2032)

Figure 42. World PHA Foam Production Value Market Share by Substrate Type Classification (2021-2032)

Figure 43. World PHA Foam Average Price by Substrate Type Classification (2021-2032) & (US\$/Ton)

Figure 44. World PHA Foam Production Value by Morphology, (USD Million), 2021 & 2025 & 2032

Figure 45. World PHA Foam Production Value Market Share by Morphology in 2025

Figure 46. Foam Beads

Figure 47. Foam Sheet

Figure 48. Foam Board

Figure 49. Others

Figure 50. World PHA Foam Production Market Share by Morphology (2021-2032)

Figure 51. World PHA Foam Production Value Market Share by Morphology (2021-2032)

Figure 52. World PHA Foam Average Price by Morphology (2021-2032) & (US\$/Ton)

Figure 53. World PHA Foam Production Value by Process Classification, (USD Million), 2021 & 2025 & 2032

Figure 54. World PHA Foam Production Value Market Share by Process Classification in 2025

Figure 55. Chemical Foaming Method

Figure 56. Physical Foaming Method

Figure 57. World PHA Foam Production Market Share by Process Classification (2021-2032)

Figure 58. World PHA Foam Production Value Market Share by Process Classification

(2021-2032)

Figure 59. World PHA Foam Average Price by Process Classification (2021-2032) & (US\$/Ton)

Figure 60. World PHA Foam Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 61. World PHA Foam Production Value Market Share by Application in 2025

Figure 62. Consumer Goods

Figure 63. Packaging and Transportation

Figure 64. Biomedical

Figure 65. Industrial and Environmental

Figure 66. Others

Figure 67. World PHA Foam Production Market Share by Application (2021-2032)

Figure 68. World PHA Foam Production Value Market Share by Application (2021-2032)

Figure 69. World PHA Foam Average Price by Application (2021-2032) & (US\$/Ton)

Figure 70. PHA Foam Industry Chain

Figure 71. PHA Foam Procurement Model

Figure 72. PHA Foam Sales Model

Figure 73. PHA Foam Sales Channels, Direct Sales, and Distribution

Figure 74. Methodology

Figure 75. Research Process and Data Source

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