

Global Supercritical CO₂-Foamed PMMA Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Supercritical CO₂-Foamed PMMA market size is expected to reach \$ 10.89 million by 2032, rising at a market growth of 16.9% CAGR during the forecast period (2026-2032).

Supercritical CO₂-Foamed PMMA refers to a cellular PMMA material in which the pore structure is generated with the assistance of supercritical carbon dioxide. Compared with solid PMMA, this material is intended to retain PMMA's key intrinsic attributes—such as high optical clarity, surface hardness, weatherability, and dimensional stability—while introducing lower density and a controllable cellular architecture. In the PMMA system, the resulting porous structure can range from conventional fine-celled foams to sub-microcellular and nanocellular forms.

From the upstream perspective, the core raw-material base is PMMA resin, and PMMA itself is derived from methyl methacrylate (MMA). Depending on product design, the material system may further include different PMMA grades, blend partners such as PLA, TPU, PVDF, or PMMA/MAM-type systems, and functional fillers/additives such as silica, TiO₂, graphite nanoplatelets, silicon carbide, or other nucleating / infrared-blocking components to tune pore structure, density, thermal behavior, and toughness. From the downstream perspective, the main directions are thermal insulation materials and vacuum insulation panel (VIP) core materials, lightweight structural/core materials, optical and light-management porous materials, filtration / gas-separation / adsorption porous media, and biomedical scaffolds or drug-delivery porous platforms.

In 2025, global sales of Supercritical CO₂-Foamed PMMA reached approximately 366 tons, with an average global market price of around US\$ 9,618/ton. Production capacity varies significantly among manufacturers, with gross profit margins ranging from

approximately 10% to 30%.

This report studies the global Supercritical CO₂-Foamed PMMA production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Supercritical CO₂-Foamed PMMA 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 Supercritical CO₂-Foamed PMMA that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Supercritical CO₂-Foamed PMMA total production and demand, 2021-2032, (Tons)

Global Supercritical CO₂-Foamed PMMA total production value, 2021-2032, (USD Million)

Global Supercritical CO₂-Foamed PMMA production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Supercritical CO₂-Foamed PMMA consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Supercritical CO₂-Foamed PMMA domestic production, consumption, key domestic manufacturers and share

Global Supercritical CO₂-Foamed PMMA production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Supercritical CO₂-Foamed PMMA production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Supercritical CO₂-Foamed PMMA production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Supercritical CO₂-Foamed PMMA 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 CellMat Technologies, KANEKA, Ningbo GMF New Material, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices

used in analyzing the World Supercritical CO₂-Foamed PMMA 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 Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Supercritical CO₂-Foamed PMMA Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Supercritical CO₂-Foamed PMMA Market, Segmentation by Type:

Neat PMMA

PMMA Polymer-Blend

Global Supercritical CO₂-Foamed PMMA Market, Segmentation by Cell Structure:

Closed-cell

Open-cell

Other

Global Supercritical CO₂-Foamed PMMA Market, Segmentation by Average Cell Size:

>100 µm

<100 µm

Global Supercritical CO₂-Foamed PMMA Market, Segmentation by Application:

Thermal Insulation Materials

Lightweight Structural and Core Materials

Optical and Light-Management Porous Materials

Other

Companies Profiled:

CellMat Technologies

KANEKA

Ningbo GMF New Material

Key Questions Answered:

1. How big is the global Supercritical CO₂-Foamed PMMA market?
2. What is the demand of the global Supercritical CO₂-Foamed PMMA market?
3. What is the year over year growth of the global Supercritical CO₂-Foamed PMMA market?
4. What is the production and production value of the global Supercritical CO₂-Foamed

PMMA market?

5. Who are the key producers in the global Supercritical CO₂-Foamed PMMA market?

6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Supercritical CO₂-Foamed PMMA Introduction
- 1.2 World Supercritical CO₂-Foamed PMMA Supply & Forecast
 - 1.2.1 World Supercritical CO₂-Foamed PMMA Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Supercritical CO₂-Foamed PMMA Production (2021-2032)
 - 1.2.3 World Supercritical CO₂-Foamed PMMA Pricing Trends (2021-2032)
- 1.3 World Supercritical CO₂-Foamed PMMA Production by Region (Based on Production Site)
 - 1.3.1 World Supercritical CO₂-Foamed PMMA Production Value by Region (2021-2032)
 - 1.3.2 World Supercritical CO₂-Foamed PMMA Production by Region (2021-2032)
 - 1.3.3 World Supercritical CO₂-Foamed PMMA Average Price by Region (2021-2032)
 - 1.3.4 Europe Supercritical CO₂-Foamed PMMA Production (2021-2032)
 - 1.3.5 China Supercritical CO₂-Foamed PMMA Production (2021-2032)
 - 1.3.6 Japan Supercritical CO₂-Foamed PMMA Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Supercritical CO₂-Foamed PMMA Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Supercritical CO₂-Foamed PMMA Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Supercritical CO₂-Foamed PMMA Demand (2021-2032)
- 2.2 World Supercritical CO₂-Foamed PMMA Consumption by Region
 - 2.2.1 World Supercritical CO₂-Foamed PMMA Consumption by Region (2021-2026)
 - 2.2.2 World Supercritical CO₂-Foamed PMMA Consumption Forecast by Region (2027-2032)
- 2.3 United States Supercritical CO₂-Foamed PMMA Consumption (2021-2032)
- 2.4 China Supercritical CO₂-Foamed PMMA Consumption (2021-2032)
- 2.5 Europe Supercritical CO₂-Foamed PMMA Consumption (2021-2032)
- 2.6 Japan Supercritical CO₂-Foamed PMMA Consumption (2021-2032)
- 2.7 South Korea Supercritical CO₂-Foamed PMMA Consumption (2021-2032)
- 2.8 ASEAN Supercritical CO₂-Foamed PMMA Consumption (2021-2032)
- 2.9 India Supercritical CO₂-Foamed PMMA Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Supercritical CO₂-Foamed PMMA Production Value by Manufacturer (2021-2026)
- 3.2 World Supercritical CO₂-Foamed PMMA Production by Manufacturer (2021-2026)
- 3.3 World Supercritical CO₂-Foamed PMMA Average Price by Manufacturer (2021-2026)
- 3.4 Supercritical CO₂-Foamed PMMA Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Supercritical CO₂-Foamed PMMA Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Supercritical CO₂-Foamed PMMA in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Supercritical CO₂-Foamed PMMA in 2025
- 3.6 Supercritical CO₂-Foamed PMMA Market: Overall Company Footprint Analysis
 - 3.6.1 Supercritical CO₂-Foamed PMMA Market: Region Footprint
 - 3.6.2 Supercritical CO₂-Foamed PMMA Market: Company Product Type Footprint
 - 3.6.3 Supercritical CO₂-Foamed PMMA 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: Supercritical CO₂-Foamed PMMA Production Value Comparison
 - 4.1.1 United States VS China: Supercritical CO₂-Foamed PMMA Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Supercritical CO₂-Foamed PMMA Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Supercritical CO₂-Foamed PMMA Production Comparison
 - 4.2.1 United States VS China: Supercritical CO₂-Foamed PMMA Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Supercritical CO₂-Foamed PMMA Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Supercritical CO₂-Foamed PMMA Consumption Comparison
 - 4.3.1 United States VS China: Supercritical CO₂-Foamed PMMA Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Supercritical CO₂-Foamed PMMA Consumption Market

Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Supercritical CO₂-Foamed PMMA Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Supercritical CO₂-Foamed PMMA Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Supercritical CO₂-Foamed PMMA Production Value (2021-2026)

4.4.3 United States Based Manufacturers Supercritical CO₂-Foamed PMMA Production (2021-2026)

4.5 China Based Supercritical CO₂-Foamed PMMA Manufacturers and Market Share

4.5.1 China Based Supercritical CO₂-Foamed PMMA Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Supercritical CO₂-Foamed PMMA Production Value (2021-2026)

4.5.3 China Based Manufacturers Supercritical CO₂-Foamed PMMA Production (2021-2026)

4.6 Rest of World Based Supercritical CO₂-Foamed PMMA Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Supercritical CO₂-Foamed PMMA Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Supercritical CO₂-Foamed PMMA Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Supercritical CO₂-Foamed PMMA Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Supercritical CO₂-Foamed PMMA Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Neat PMMA

5.2.2 PMMA Polymer-Blend

5.3 Market Segment by Type

5.3.1 World Supercritical CO₂-Foamed PMMA Production by Type (2021-2032)

5.3.2 World Supercritical CO₂-Foamed PMMA Production Value by Type (2021-2032)

5.3.3 World Supercritical CO₂-Foamed PMMA Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY CELL STRUCTURE

6.1 World Supercritical CO₂-Foamed PMMA Market Size Overview by Cell Structure: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Cell Structure

6.2.1 Closed-cell

6.2.2 Open-cell

6.2.3 Other

6.3 Market Segment by Cell Structure

6.3.1 World Supercritical CO₂-Foamed PMMA Production by Cell Structure (2021-2032)

6.3.2 World Supercritical CO₂-Foamed PMMA Production Value by Cell Structure (2021-2032)

6.3.3 World Supercritical CO₂-Foamed PMMA Average Price by Cell Structure (2021-2032)

7 MARKET ANALYSIS BY AVERAGE CELL SIZE

7.1 World Supercritical CO₂-Foamed PMMA Market Size Overview by Average Cell Size: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Average Cell Size

7.2.1 <100 μm

7.2.2 >100 μm

7.3 Market Segment by Average Cell Size

7.3.1 World Supercritical CO₂-Foamed PMMA Production by Average Cell Size (2021-2032)

7.3.2 World Supercritical CO₂-Foamed PMMA Production Value by Average Cell Size (2021-2032)

7.3.3 World Supercritical CO₂-Foamed PMMA Average Price by Average Cell Size (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Supercritical CO₂-Foamed PMMA Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Thermal Insulation Materials

8.2.2 Lightweight Structural and Core Materials

8.2.3 Optical and Light-Management Porous Materials

8.2.4 Other

8.3 Market Segment by Application

8.3.1 World Supercritical CO₂-Foamed PMMA Production by Application (2021-2032)

8.3.2 World Supercritical CO₂-Foamed PMMA Production Value by Application (2021-2032)

8.3.3 World Supercritical CO₂-Foamed PMMA Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 CellMat Technologies

9.1.1 CellMat Technologies Details

9.1.2 CellMat Technologies Major Business

9.1.3 CellMat Technologies Supercritical CO₂-Foamed PMMA Product and Services

9.1.4 CellMat Technologies Supercritical CO₂-Foamed PMMA Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 CellMat Technologies Recent Developments/Updates

9.1.6 CellMat Technologies Competitive Strengths & Weaknesses

9.2 KANEKA

9.2.1 KANEKA Details

9.2.2 KANEKA Major Business

9.2.3 KANEKA Supercritical CO₂-Foamed PMMA Product and Services

9.2.4 KANEKA Supercritical CO₂-Foamed PMMA Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 KANEKA Recent Developments/Updates

9.2.6 KANEKA Competitive Strengths & Weaknesses

9.3 Ningbo GMF New Material

9.3.1 Ningbo GMF New Material Details

9.3.2 Ningbo GMF New Material Major Business

9.3.3 Ningbo GMF New Material Supercritical CO₂-Foamed PMMA Product and Services

9.3.4 Ningbo GMF New Material Supercritical CO₂-Foamed PMMA Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Ningbo GMF New Material Recent Developments/Updates

9.3.6 Ningbo GMF New Material Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Supercritical CO₂-Foamed PMMA Industry Chain

10.2 Supercritical CO₂-Foamed PMMA Upstream Analysis

10.2.1 Supercritical CO₂-Foamed PMMA Core Raw Materials

10.2.2 Main Manufacturers of Supercritical CO₂-Foamed PMMA Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Supercritical CO₂-Foamed PMMA Production Mode

10.6 Supercritical CO₂-Foamed PMMA Procurement Model

10.7 Supercritical CO₂-Foamed PMMA Industry Sales Model and Sales Channels

10.7.1 Supercritical CO₂-Foamed PMMA Sales Model

10.7.2 Supercritical CO₂-Foamed PMMA 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 Supercritical CO₂-Foamed PMMA Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Supercritical CO₂-Foamed PMMA Production Value by Region (2021-2026) & (USD Million)

Table 3. World Supercritical CO₂-Foamed PMMA Production Value by Region (2027-2032) & (USD Million)

Table 4. World Supercritical CO₂-Foamed PMMA Production Value Market Share by Region (2021-2026)

Table 5. World Supercritical CO₂-Foamed PMMA Production Value Market Share by Region (2027-2032)

Table 6. World Supercritical CO₂-Foamed PMMA Production by Region (2021-2026) & (Tons)

Table 7. World Supercritical CO₂-Foamed PMMA Production by Region (2027-2032) & (Tons)

Table 8. World Supercritical CO₂-Foamed PMMA Production Market Share by Region (2021-2026)

Table 9. World Supercritical CO₂-Foamed PMMA Production Market Share by Region (2027-2032)

Table 10. World Supercritical CO₂-Foamed PMMA Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Supercritical CO₂-Foamed PMMA Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Supercritical CO₂-Foamed PMMA Major Market Trends

Table 13. World Supercritical CO₂-Foamed PMMA Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Supercritical CO₂-Foamed PMMA Consumption by Region (2021-2026) & (Tons)

Table 15. World Supercritical CO₂-Foamed PMMA Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World Supercritical CO₂-Foamed PMMA Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Supercritical CO₂-Foamed PMMA Producers in 2025

Table 18. World Supercritical CO₂-Foamed PMMA Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Supercritical CO₂-Foamed PMMA Producers in 2025

Table 20. World Supercritical CO₂-Foamed PMMA Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Supercritical CO₂-Foamed PMMA Company Evaluation Quadrant

Table 22. World Supercritical CO₂-Foamed PMMA Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Supercritical CO₂-Foamed PMMA Production Site of Key Manufacturer

Table 24. Supercritical CO₂-Foamed PMMA Market: Company Product Type Footprint

Table 25. Supercritical CO₂-Foamed PMMA Market: Company Product Application Footprint

Table 26. Supercritical CO₂-Foamed PMMA Competitive Factors

Table 27. Supercritical CO₂-Foamed PMMA New Entrant and Capacity Expansion Plans

Table 28. Supercritical CO₂-Foamed PMMA Mergers & Acquisitions Activity

Table 29. United States VS China Supercritical CO₂-Foamed PMMA Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Supercritical CO₂-Foamed PMMA Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Supercritical CO₂-Foamed PMMA Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based Supercritical CO₂-Foamed PMMA Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Supercritical CO₂-Foamed PMMA Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Supercritical CO₂-Foamed PMMA Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Supercritical CO₂-Foamed PMMA Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers Supercritical CO₂-Foamed PMMA Production Market Share (2021-2026)

Table 37. China Based Supercritical CO₂-Foamed PMMA Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Supercritical CO₂-Foamed PMMA Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Supercritical CO₂-Foamed PMMA Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Supercritical CO₂-Foamed PMMA Production,

(2021-2026) & (Tons)

Table 41. China Based Manufacturers Supercritical CO₂-Foamed PMMA Production Market Share (2021-2026)

Table 42. Rest of World Based Supercritical CO₂-Foamed PMMA Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Supercritical CO₂-Foamed PMMA Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Supercritical CO₂-Foamed PMMA Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Supercritical CO₂-Foamed PMMA Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers Supercritical CO₂-Foamed PMMA Production Market Share (2021-2026)

Table 47. World Supercritical CO₂-Foamed PMMA Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Supercritical CO₂-Foamed PMMA Production by Type (2021-2026) & (Tons)

Table 49. World Supercritical CO₂-Foamed PMMA Production by Type (2027-2032) & (Tons)

Table 50. World Supercritical CO₂-Foamed PMMA Production Value by Type (2021-2026) & (USD Million)

Table 51. World Supercritical CO₂-Foamed PMMA Production Value by Type (2027-2032) & (USD Million)

Table 52. World Supercritical CO₂-Foamed PMMA Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Supercritical CO₂-Foamed PMMA Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Supercritical CO₂-Foamed PMMA Production Value by Cell Structure, (USD Million), 2021 & 2025 & 2032

Table 55. World Supercritical CO₂-Foamed PMMA Production by Cell Structure (2021-2026) & (Tons)

Table 56. World Supercritical CO₂-Foamed PMMA Production by Cell Structure (2027-2032) & (Tons)

Table 57. World Supercritical CO₂-Foamed PMMA Production Value by Cell Structure (2021-2026) & (USD Million)

Table 58. World Supercritical CO₂-Foamed PMMA Production Value by Cell Structure (2027-2032) & (USD Million)

Table 59. World Supercritical CO₂-Foamed PMMA Average Price by Cell Structure (2021-2026) & (US\$/Ton)

Table 60. World Supercritical CO₂-Foamed PMMA Average Price by Cell Structure (2027-2032) & (US\$/Ton)

Table 61. World Supercritical CO₂-Foamed PMMA Production Value by Average Cell Size, (USD Million), 2021 & 2025 & 2032

Table 62. World Supercritical CO₂-Foamed PMMA Production by Average Cell Size (2021-2026) & (Tons)

Table 63. World Supercritical CO₂-Foamed PMMA Production by Average Cell Size (2027-2032) & (Tons)

Table 64. World Supercritical CO₂-Foamed PMMA Production Value by Average Cell Size (2021-2026) & (USD Million)

Table 65. World Supercritical CO₂-Foamed PMMA Production Value by Average Cell Size (2027-2032) & (USD Million)

Table 66. World Supercritical CO₂-Foamed PMMA Average Price by Average Cell Size (2021-2026) & (US\$/Ton)

Table 67. World Supercritical CO₂-Foamed PMMA Average Price by Average Cell Size (2027-2032) & (US\$/Ton)

Table 68. World Supercritical CO₂-Foamed PMMA Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Supercritical CO₂-Foamed PMMA Production by Application (2021-2026) & (Tons)

Table 70. World Supercritical CO₂-Foamed PMMA Production by Application (2027-2032) & (Tons)

Table 71. World Supercritical CO₂-Foamed PMMA Production Value by Application (2021-2026) & (USD Million)

Table 72. World Supercritical CO₂-Foamed PMMA Production Value by Application (2027-2032) & (USD Million)

Table 73. World Supercritical CO₂-Foamed PMMA Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Supercritical CO₂-Foamed PMMA Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. CellMat Technologies Basic Information, Manufacturing Base and Competitors

Table 76. CellMat Technologies Major Business

Table 77. CellMat Technologies Supercritical CO₂-Foamed PMMA Product and Services

Table 78. CellMat Technologies Supercritical CO₂-Foamed PMMA Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. CellMat Technologies Recent Developments/Updates

Table 80. CellMat Technologies Competitive Strengths & Weaknesses
Table 81. KANEKA Basic Information, Manufacturing Base and Competitors
Table 82. KANEKA Major Business
Table 83. KANEKA Supercritical CO ₂ -Foamed PMMA Product and Services
Table 84. KANEKA Supercritical CO ₂ -Foamed PMMA Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. KANEKA Recent Developments/Updates
Table 86. KANEKA Competitive Strengths & Weaknesses
Table 87. Ningbo GMF New Material Basic Information, Manufacturing Base and Competitors
Table 88. Ningbo GMF New Material Major Business
Table 89. Ningbo GMF New Material Supercritical CO ₂ -Foamed PMMA Product and Services
Table 90. Ningbo GMF New Material Supercritical CO ₂ -Foamed PMMA Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. Ningbo GMF New Material Recent Developments/Updates
Table 92. Ningbo GMF New Material Competitive Strengths & Weaknesses
Table 93. Global Key Players of Supercritical CO ₂ -Foamed PMMA Upstream (Raw Materials)
Table 94. Global Supercritical CO ₂ -Foamed PMMA Typical Customers
Table 95. Supercritical CO ₂ -Foamed PMMA Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Supercritical CO₂-Foamed PMMA Picture

Figure 2. World Supercritical CO₂-Foamed PMMA Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Supercritical CO₂-Foamed PMMA Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Supercritical CO₂-Foamed PMMA Production (2021-2032) & (Tons)

Figure 5. World Supercritical CO₂-Foamed PMMA Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Supercritical CO₂-Foamed PMMA Production Value Market Share by Region (2021-2032)

Figure 7. World Supercritical CO₂-Foamed PMMA Production Market Share by Region (2021-2032)

Figure 8. Europe Supercritical CO₂-Foamed PMMA Production (2021-2032) & (Tons)

Figure 9. China Supercritical CO₂-Foamed PMMA Production (2021-2032) & (Tons)

Figure 10. Japan Supercritical CO₂-Foamed PMMA Production (2021-2032) & (Tons)

Figure 11. Supercritical CO₂-Foamed PMMA Market Drivers

Figure 12. Factors Affecting Demand

Figure 13. World Supercritical CO₂-Foamed PMMA Consumption (2021-2032) & (Tons)

Figure 14. World Supercritical CO₂-Foamed PMMA Consumption Market Share by Region (2021-2032)

Figure 15. United States Supercritical CO₂-Foamed PMMA Consumption (2021-2032) & (Tons)

Figure 16. China Supercritical CO₂-Foamed PMMA Consumption (2021-2032) & (Tons)

Figure 17. Europe Supercritical CO₂-Foamed PMMA Consumption (2021-2032) & (Tons)

Figure 18. Japan Supercritical CO₂-Foamed PMMA Consumption (2021-2032) & (Tons)

Figure 19. South Korea Supercritical CO₂-Foamed PMMA Consumption (2021-2032) & (Tons)

Figure 20. ASEAN Supercritical CO₂-Foamed PMMA Consumption (2021-2032) & (Tons)

Figure 21. India Supercritical CO₂-Foamed PMMA Consumption (2021-2032) & (Tons)

Figure 22. Producer Shipments of Supercritical CO₂-Foamed PMMA by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 23. Global Four-firm Concentration Ratios (CR4) for Supercritical CO₂-Foamed PMMA Markets in 2025

Figure 24. Global Four-firm Concentration Ratios (CR8) for Supercritical CO₂-Foamed PMMA Markets in 2025

Figure 25. United States VS China: Supercritical CO₂-Foamed PMMA Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 26. United States VS China: Supercritical CO₂-Foamed PMMA Production Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Supercritical CO₂-Foamed PMMA Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States Based Manufacturers Supercritical CO₂-Foamed PMMA Production Market Share 2025

Figure 29. China Based Manufacturers Supercritical CO₂-Foamed PMMA Production Market Share 2025

Figure 30. Rest of World Based Manufacturers Supercritical CO₂-Foamed PMMA Production Market Share 2025

Figure 31. World Supercritical CO₂-Foamed PMMA Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 32. World Supercritical CO₂-Foamed PMMA Production Value Market Share by Type in 2025

Figure 33. Neat PMMA

Figure 34. PMMA Polymer-Blend

Figure 35. World Supercritical CO₂-Foamed PMMA Production Market Share by Type (2021-2032)

Figure 36. World Supercritical CO₂-Foamed PMMA Production Value Market Share by Type (2021-2032)

Figure 37. World Supercritical CO₂-Foamed PMMA Average Price by Type (2021-2032) & (US\$/Ton)

Figure 38. World Supercritical CO₂-Foamed PMMA Production Value by Cell Structure, (USD Million), 2021 & 2025 & 2032

Figure 39. World Supercritical CO₂-Foamed PMMA Production Value Market Share by Cell Structure in 2025

Figure 40. Closed-cell

Figure 41. Open-cell

Figure 42. Other

Figure 43. World Supercritical CO₂-Foamed PMMA Production Market Share by Cell Structure (2021-2032)

Figure 44. World Supercritical CO₂-Foamed PMMA Production Value Market Share by Cell Structure (2021-2032)

Figure 45. World Supercritical CO₂-Foamed PMMA Average Price by Cell Structure (2021-2032) & (US\$/Ton)

Figure 46. World Supercritical CO₂-Foamed PMMA Production Value by Average Cell Size, (USD Million), 2021 & 2025 & 2032

Figure 47. World Supercritical CO₂-Foamed PMMA Production Value Market Share by Average Cell Size in 2025

Figure 48. ?100 ?m

Figure 49. ?100 ?m

Figure 50. World Supercritical CO₂-Foamed PMMA Production Market Share by Average Cell Size (2021-2032)

Figure 51. World Supercritical CO₂-Foamed PMMA Production Value Market Share by Average Cell Size (2021-2032)

Figure 52. World Supercritical CO₂-Foamed PMMA Average Price by Average Cell Size (2021-2032) & (US\$/Ton)

Figure 53. World Supercritical CO₂-Foamed PMMA Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 54. World Supercritical CO₂-Foamed PMMA Production Value Market Share by Application in 2025

Figure 55. Thermal Insulation Materials

Figure 56. Lightweight Structural and Core Materials

Figure 57. Optical and Light-Management Porous Materials

Figure 58. Other

Figure 59. World Supercritical CO₂-Foamed PMMA Production Market Share by Application (2021-2032)

Figure 60. World Supercritical CO₂-Foamed PMMA Production Value Market Share by Application (2021-2032)

Figure 61. World Supercritical CO₂-Foamed PMMA Average Price by Application (2021-2032) & (US\$/Ton)

Figure 62. Supercritical CO₂-Foamed PMMA Industry Chain

Figure 63. Supercritical CO₂-Foamed PMMA Procurement Model

Figure 64. Supercritical CO₂-Foamed PMMA Sales Model

Figure 65. Supercritical CO₂-Foamed PMMA Sales Channels, Direct Sales, and Distribution

Figure 66. Methodology

Figure 67. Research Process and Data Source

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