

Global Supercritical CO₂-Foamed PMMA Market Growth 2026-2032

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Abstracts

The global Supercritical CO₂-Foamed PMMA market size is predicted to grow from US\$ 3.44 million in 2025 to US\$ 10.93 million in 2032; it is expected to grow at a CAGR of 17.9% from 2026 to 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%.

United States market for Supercritical CO₂-Foamed PMMA is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Supercritical CO₂-Foamed PMMA is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Supercritical CO₂-Foamed PMMA is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Supercritical CO₂-Foamed PMMA players cover CellMat Technologies, KANEKA, Ningbo GMF New Material, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Supercritical CO₂-Foamed PMMA Industry Forecast" looks at past sales and reviews total world Supercritical CO₂-Foamed PMMA sales in 2025, providing a comprehensive analysis by region and market sector of projected Supercritical CO₂-Foamed PMMA sales for 2026 through 2032. With Supercritical CO₂-Foamed PMMA sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Supercritical CO₂-Foamed PMMA industry.

This Insight Report provides a comprehensive analysis of the global Supercritical CO₂-Foamed PMMA landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Supercritical CO₂-Foamed PMMA portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Supercritical CO₂-Foamed PMMA market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Supercritical CO₂-Foamed PMMA and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Supercritical CO₂-Foamed

PMMA.

This report presents a comprehensive overview, market shares, and growth opportunities of Supercritical CO₂-Foamed PMMA market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Neat PMMA

PMMA Polymer-Blend

Segmentation by Cell Structure:

Closed-cell

Open-cell

Other

Segmentation by Average Cell Size:

>100 µm

<100 µm

Segmentation by Application:

Thermal Insulation Materials

Lightweight Structural and Core Materials

Optical and Light-Management Porous Materials

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

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

CellMat Technologies

KANEKA

Ningbo GMF New Material

Key Questions Addressed in this Report

What is the 10-year outlook for the global Supercritical CO₂-Foamed PMMA market?

What factors are driving Supercritical CO₂-Foamed PMMA market growth, globally and by region?

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

How do Supercritical CO₂-Foamed PMMA market opportunities vary by end market size?

How does Supercritical CO₂-Foamed PMMA break out by Type, by Application?

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