

Global Supercritical CO₂-Foamed PMMA Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Supercritical CO₂-Foamed PMMA market size was valued at US\$ 3.62 million in 2025 and is forecast to a readjusted size of US\$ 10.89 million by 2032 with a CAGR of 16.9% during review period.

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 is a detailed and comprehensive analysis for global Supercritical CO₂-Foamed PMMA 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 Supercritical CO₂-Foamed PMMA market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Supercritical CO₂-Foamed PMMA market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Supercritical CO₂-Foamed PMMA market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Supercritical CO₂-Foamed PMMA market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

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 Supercritical CO₂-Foamed PMMA

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 Supercritical CO₂-Foamed PMMA 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 CellMat Technologies, KANEKA, Ningbo GMF New Material, etc.

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

Market Segmentation

Supercritical CO₂-Foamed PMMA market is split by Type and by Application. For the period 2021-2032, 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

Neat PMMA

PMMA Polymer-Blend

Market segment by Cell Structure

Closed-cell

Open-cell

Other

Market segment by Average Cell Size

>100 μm

<100 μm

Market segment by Application

Thermal Insulation Materials

Lightweight Structural and Core Materials

Optical and Light-Management Porous Materials

Other

Major players covered

CellMat Technologies

KANEKA

Ningbo GMF New Material

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 Supercritical CO₂-Foamed PMMA product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Supercritical CO₂-Foamed PMMA, with price, sales quantity, revenue, and global market share of Supercritical CO₂-Foamed PMMA from 2021 to 2026.

Chapter 3, the Supercritical CO₂-Foamed PMMA competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Supercritical CO₂-Foamed PMMA breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Supercritical CO₂-Foamed PMMA market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Supercritical CO₂-Foamed PMMA.

Chapter 14 and 15, to describe Supercritical CO₂-Foamed PMMA sales channel, distributors, customers, research findings and conclusion.

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