

Global Aerospace PMI Structural Foam Market Growth 2026-2032

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Abstracts

The global Aerospace PMI Structural Foam market size is predicted to grow from US\$ 183 million in 2025 to US\$ 323 million in 2032; it is expected to grow at a CAGR of 8.5% from 2026 to 2032.

In 2025, global Aerospace PMI Structural Foam production reached 261,830 cubic meters, with an average selling price of US\$714.28/cubic meter. Hybo FOAM has established a PMI foam production line with an annual capacity of 5,000 cubic meters. PMI foam, short for polymethacrylimide foam, is an ideal core material for high-performance, lightweight sandwich composites. Currently, PMI foam offers the highest strength and stiffness in heat-resistant plastics. Its widespread application stems from its ability to withstand diverse process environments and its excellent compatibility with various resin types. Carbon fiber composites using PMI foam as a core material offer advantages such as light weight, high flexural strength, excellent heat resistance, and impact resistance. Aerospace remains a key downstream market for PMI foam, with approximately 80% of PMI foam used internationally in aerospace applications. PMI structural foam materials (functional materials) and their products are essential components for the carbon fiber composites used in various types of civil and military aircraft, drones, and other aircraft (fusels, wings, blades, etc.). Aerospace PMI Structural foam products have been widely used in aerospace and aviation, and we are the exclusive qualified domestic supplier to several domestic aircraft manufacturers. The rapid growth of the military industry in recent years has led to strong demand for lightweight composite materials for fighter jets, drones, and other applications, creating growth opportunities for domestic manufacturers. Currently, Evonik of Germany maintains a dominant position in the aerospace PMI foam market. Only a few Chinese manufacturers, such as Hunan Zihard Material Technology Co., Ltd., Cashem Advanced Materials Hi-tech Co., Ltd. and Hybo FOAM, have achieved domestic

production. The rapid growth of the military industry in recent years has led to a strong demand for lightweight composite materials for fighter jets, drones, and other applications, creating growth opportunities for domestic manufacturers.

In the aerospace industry, composite components typically have a 'sandwich' structure, consisting of a skin and core. Currently, the three main types of composite core materials are honeycomb, rigid foam, and balsa wood. Honeycomb materials primarily include aluminum honeycomb and paper honeycomb. Rigid foams include PMI, PVC, PET, PU, and EPS. Balsa wood is primarily used for balsa wood. Composite sandwich structures are the preferred choice for manufacturing lightweight, high-strength aircraft components. They are commonly used in wing leading edges, rudders, landing gear doors, wing bodies, and wingtip fairings. Among foams of the same density, PMI foam currently boasts the highest specific strength and specific stiffness among rigid closed-cell foams. The pore surfaces of PMI foam are composed of true solid components, which increase the rigidity of the porous structure. In composite sandwich structures, PMI foam can serve as a structural unit. Currently, PMI is widely used in European and American aviation, with 80% of US military aircraft and 83% of Boeing and other civilian aircraft using PMI. In contrast, PMI usage in the Chinese aviation industry is only around 7%. This is primarily due to the significant technological gap between China and other countries, as China still lacks the engineering technology for Z-reinforced PMI (patented by the US company Aztex for its Z-pin).

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

This Insight Report provides a comprehensive analysis of the global Aerospace PMI Structural Foam 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 Aerospace PMI Structural Foam portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Aerospace PMI Structural Foam market.

This Insight Report evaluates the key market trends, drivers, and affecting factors

shaping the global outlook for Aerospace PMI Structural Foam 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 Aerospace PMI Structural Foam.

This report presents a comprehensive overview, market shares, and growth opportunities of Aerospace PMI Structural Foam market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Small Pores (Foam Pores & Low Viscosity)

Medium Pores (Foam Pores & Medium Viscosity)

Large Pores (Foam Pores & High Viscosity)

Segmentation by Density (kg/m³):

110 kg/m³

Segmentation by Heat Deflection Temperature:

High Temperature (200°C)

Ultra-high Temperature (240°C)

Segmentation by Structural Parts:

Fuselage

Wings

Propeller Blades

Other

Segmentation by Application:

Civilian Aircraft? Large Commercial Aircraft & Business Jets & Helicopters?

Military Aircraft

UAVs

Flying Cars

Aerospace

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.

Evonik

Cel Components srl

Future Composites Co., Ltd

TOPOLO New Materials

Hunan Zihard Material Technology Co., Ltd.?Longhua Technology Group
(Luoyang) Co., Ltd.?

Cashem Advanced Materials Hi-tech Co.,Ltd

Hybo FOAM

Boom New Materials

ARCHCELL

CNGR Advanced Material Co., Ltd.

Baoding Visight Advanced Material Technology Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Aerospace PMI Structural Foam market?

What factors are driving Aerospace PMI Structural Foam market growth, globally and by region?

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

How do Aerospace PMI Structural Foam market opportunities vary by end market size?

How does Aerospace PMI Structural Foam break out by Type, by Application?

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