

Global Plastic Vacuum Insulation Panels Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Plastic Vacuum Insulation Panels market size is expected to reach \$ 1589 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

In 2025, global Plastic Vacuum Insulation Panels production reached approximately 55.00 million sqm, with an average global market price of around USD 16 per sqm.

The gross profit margin of major companies in the industry is between 18.46%-34.58%.

In 2025, the global production capacity of Plastic Vacuum Insulation Panels was approximately 72.37 million sqm.

Plastic Vacuum Insulation Panels are high-performance thermal insulation panels using plastic or polymer-based barrier envelopes to enclose a porous core under vacuum. They provide very low thermal conductivity and are used where thin insulation and high energy efficiency are required. Applications include refrigerators, cold chain containers, building insulation, refrigerated transport, medical cold storage and specialty thermal boxes. The market covers plastic-envelope VIP products and polymer barrier structures, but excludes traditional foam boards, glass fiber insulation and metal-envelope vacuum panels.

The industry chain includes barrier films, polymer laminates, core powders, glass fibers, getters, desiccants, adhesives, vacuum equipment and sealing materials. Midstream production includes core preparation, envelope forming, vacuum sealing, edge sealing, thermal testing, aging testing and cutting. Downstream demand comes from appliances, cold chain logistics, construction, medical transport, food delivery, refrigerated vehicles

and energy-saving equipment. Growth is driven by stricter energy efficiency standards, cold chain expansion, thinner insulation demand and lightweight packaging requirements.

Building energy conservation, cold chain logistics and refrigeration equipment manufacturing boost the market of plastic vacuum insulation panels. It boasts excellent thermal insulation performance and light weight, effectively reducing energy loss. Airtight structure optimization prolongs the service life of vacuum state.

This report studies the global Plastic Vacuum Insulation Panels production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Plastic Vacuum Insulation Panels 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 Plastic Vacuum Insulation Panels that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Plastic Vacuum Insulation Panels total production and demand, 2021-2032, (K Sqm)

Global Plastic Vacuum Insulation Panels total production value, 2021-2032, (USD Million)

Global Plastic Vacuum Insulation Panels production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)

Global Plastic Vacuum Insulation Panels consumption by region & country, CAGR, 2021-2032 & (K Sqm)

U.S. VS China: Plastic Vacuum Insulation Panels domestic production, consumption, key domestic manufacturers and share

Global Plastic Vacuum Insulation Panels production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sqm)

Global Plastic Vacuum Insulation Panels production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

Global Plastic Vacuum Insulation Panels production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global Plastic Vacuum Insulation Panels 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 va-Q-tec, Panasonic Industry, Kingspan Insulation, Morgan Advanced Materials, Promat, Fujian SuperTech Advanced Material, Sichuan Zerothermo Technology, Sichuan Micolon Vacuum New Material, Chuzhou Yinxing New Material Technology, Jiangsu Sanyou Dior Energy-saving New Materials, 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 Plastic Vacuum Insulation Panels market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sqm) and average price (US\$/Sq m) 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 Plastic Vacuum Insulation Panels Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Plastic Vacuum Insulation Panels Market, Segmentation by Type:

Fumed Silica Core Panels

Glass Fiber Core Panels

Polymer Composite Core Panels

Global Plastic Vacuum Insulation Panels Market, Segmentation by Barrier Film Type:

Metallized Plastic Film Panels

Aluminum Foil Laminate Panels

High-Barrier Plastic Laminate Panels

Global Plastic Vacuum Insulation Panels Market, Segmentation by Panel Thickness:

Thin Panel??10 mm?

Medium Panel?11?25 mm?

Thick Panel??25 mm?

Global Plastic Vacuum Insulation Panels Market, Segmentation by Application:

Refrigerators and Freezers

Cold Chain Logistics

Building Insulation

Other

Companies Profiled:

va-Q-tec

Panasonic Industry

Kingspan Insulation

Morgan Advanced Materials

Promat

Fujian SuperTech Advanced Material

Sichuan Zerothermo Technology

Sichuan Micolon Vacuum New Material

Chuzhou Yinxing New Material Technology

Jiangsu Sanyou Dior Energy-saving New Materials

Anhui Better New Material Technology

Key Questions Answered:

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

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