

Global Modified Polyurethane Graphite Insulation Board Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Modified Polyurethane Graphite Insulation Board market size is expected to reach \$ 449 million by 2032, rising at a market growth of 17.6% CAGR during the forecast period (2026-2032).

Modified polyurethane graphite insulation board is a new type of energy-saving thermal insulation material compounded by taking polyurethane foam as the base material, adding graphite powder and adopting polymer modification technology. It effectively reduces thermal conductivity, enhances flame retardancy and structural stability through the infrared shielding effect of graphite and optimized modified formula, and features light weight, moisture resistance and corrosion resistance, which is widely applied in building enclosure, cold chain storage and other fields. The global market size of modified polyurethane graphite insulation boards is expected to reach 1.4 billion US dollars in 2025.

Among various application fields, building insulation accounts for the largest market share of modified polyurethane graphite insulation boards, approximately 70% to 80%, making it the absolute dominant application direction, with external wall insulation systems serving as the core growth driver. Industrial insulation accounts for about 20%, mainly concentrated in cold storage, cold chain, and pipeline equipment fields. Special engineering applications hold the smallest share but offer the highest technical added value. The industry competitive landscape is characterized by a high degree of concentration, with European and American companies still maintaining technological and brand advantages in the high-end market. However, Chinese local enterprises are rapidly catching up through cost advantages and capacity expansion. The market as a whole is in a growth stage, with no absolute monopoly formed yet. Looking ahead, as global building energy efficiency standards continue to rise, carbon neutrality policies

are acceleratedly implemented worldwide, and passive houses and near-zero energy buildings become more widely promoted, modified polyurethane graphite insulation boards, which combine Class A fire resistance and high-efficiency thermal insulation, are poised to encounter structural growth opportunities. It is expected that the Asia-Pacific region, particularly the Chinese market, will lead the global growth rate over the next five years.

This report studies the global Modified Polyurethane Graphite Insulation Board production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Modified Polyurethane Graphite Insulation Board 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 Modified Polyurethane Graphite Insulation Board that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Modified Polyurethane Graphite Insulation Board total production and demand, 2021-2032, (Sq m)

Global Modified Polyurethane Graphite Insulation Board total production value, 2021-2032, (USD Million)

Global Modified Polyurethane Graphite Insulation Board production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Sq m), (based on production site)

Global Modified Polyurethane Graphite Insulation Board consumption by region & country, CAGR, 2021-2032 & (Sq m)

U.S. VS China: Modified Polyurethane Graphite Insulation Board domestic production, consumption, key domestic manufacturers and share

Global Modified Polyurethane Graphite Insulation Board production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Sq m)

Global Modified Polyurethane Graphite Insulation Board production by Fire Resistance Rating, production, value, CAGR, 2021-2032, (USD Million) & (Sq m)

Global Modified Polyurethane Graphite Insulation Board production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Sq m)

This report profiles key players in the global Modified Polyurethane Graphite Insulation Board 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 Hongbaoli Group, Jingxue Energy Saving Technology, Weihai Yunshan Technology Co., Ltd., Beijing Shengxin Xinyuan New Building Materials Co., Ltd., Dacheng County Ruidi Thermal Insulation Material Factory, Langfang Shengming Polyurethane Co., Ltd., Hebei Huana New Building Materials Co., Ltd., Jiangxi Huazhu Decoration Material Co., Ltd., Kingspan Group, Saint-Gobain, 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 Modified Polyurethane Graphite Insulation Board market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Sq m) and average price (US\$/Sq m) by manufacturer, by Fire Resistance Rating, 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 Modified Polyurethane Graphite Insulation Board Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Modified Polyurethane Graphite Insulation Board Market, Segmentation by Fire Resistance Rating:

B1 Grade

B2 Grade

A Grade

Others

Global Modified Polyurethane Graphite Insulation Board Market, Segmentation by Thermal Conductivity Grade:

Standard Grade? Thermal conductivity ? 0.024 W/(m·K)?

High Efficiency Grade? Thermal conductivity ? 0.020 W/(m·K)?

Ultra-High Efficiency Grade? Thermal conductivity ? 0.018 W/(m·K)?

Others

Global Modified Polyurethane Graphite Insulation Board Market, Segmentation by Application:

Building Thermal Insulation

Industrial Equipment Insulation

Transportation Insulation

Others

Companies Profiled:

Hongbaoli Group

Jingxue Energy Saving Technology

Weihai Yunshan Technology Co., Ltd.

Beijing Shengxin Xinyuan New Building Materials Co., Ltd.

Dacheng County Ruidi Thermal Insulation Material Factory

Langfang Shengming Polyurethane Co., Ltd.

Hebei Huana New Building Materials Co., Ltd.

Jiangxi Huazhu Decoration Material Co., Ltd.

Kingspan Group

Saint-Gobain

Recticel

Finnfoam

Nikkei Panel System

Key Questions Answered:

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

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