

Global Expandable Polystyrene Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Expandable Polystyrene market size is expected to reach \$ 17885 million by 2032, rising at a market growth of 4.7% CAGR during the forecast period (2026-2032).

In 2025, global Expandable Polystyrene output reached about 9 million tons and global capacity of around 11 million tons. The average price is about USD 1,400 per ton, with gross margins near 21%. Expandable Polystyrene (EPS) is a lightweight, closed-cell thermoplastic foam material produced by polymerizing styrene monomer into polystyrene resin and impregnating it with a blowing agent (typically pentane). During manufacturing, expandable polystyrene beads are pre-expanded with steam, aged for pressure stabilization, and then molded or block-formed into rigid foam products with excellent thermal insulation, shock absorption, moisture resistance, and low weight. EPS is widely used in building insulation, protective packaging, cold-chain logistics, appliance insulation, and civil engineering applications. The supply chain begins with upstream raw materials such as benzene and ethylene (for styrene monomer production), followed by petrochemical companies producing polystyrene resin and EPS beads. Midstream manufacturers pre-expand, mold, and fabricate EPS into sheets, blocks, packaging inserts, insulated containers, and construction products. Downstream demand is driven by the construction industry (EIFS, roof and wall insulation, floor insulation), packaging for electronics and appliances, food and pharmaceutical cold-chain transportation, automotive components, and infrastructure applications such as geofoam for road and bridge construction. Continuous growth in energy-efficient buildings, e-commerce packaging, and sustainable lightweight materials is supporting the global EPS market.

The growth of the Expandable Polystyrene (EPS) market is being driven by increasing demand for energy-efficient building insulation, supported by stricter building energy

codes and carbon reduction initiatives worldwide. Rapid expansion of e-commerce and cold-chain logistics is boosting the need for lightweight, impact-resistant protective packaging and insulated containers for food, pharmaceuticals, and temperature-sensitive products. Infrastructure projects are also increasing the use of EPS geofoam for lightweight embankments, bridge approaches, road construction, and slope stabilization due to its low density and high compressive strength. In addition, the automotive and appliance industries continue to adopt EPS for lightweight components and thermal insulation to improve energy efficiency. Technological advancements in recyclable EPS, bio-based feedstocks, closed-loop recycling systems, and low-emission manufacturing processes are further enhancing the material's sustainability profile and expanding its application potential, particularly in regions promoting circular economy policies.

Report Scope

This report studies the global Expandable Polystyrene production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Expandable Polystyrene 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 Expandable Polystyrene that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Expandable Polystyrene total production and demand, 2021-2032, (Kilotons)

Global Expandable Polystyrene total production value, 2021-2032, (USD Million)

Global Expandable Polystyrene production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Expandable Polystyrene consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Expandable Polystyrene domestic production, consumption, key domestic manufacturers and share

Global Expandable Polystyrene production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Expandable Polystyrene production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Expandable Polystyrene production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Expandable Polystyrene 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 BASF, SABIC, Synthos, BEWi, Knauf, Sunpor Kunststoff, Versalis, TotalEnergies, Styropek, StyroChem, 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 Expandable Polystyrene market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) 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 Expandable Polystyrene Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Expandable Polystyrene Market, Segmentation by Type:

White Expanded Polystyrene

Grey Expanded Polystyrene

Black Expanded Polystyrene

Global Expandable Polystyrene Market, Segmentation by Density:

<15 kg/m³

15–20 kg/m³

20–30 kg/m³

30–40 kg/m³

>40 kg/m³

Global Expandable Polystyrene Market, Segmentation by Bead Size:

<0.8 mm

0.8–1.2 mm

>1.2 mm

Global Expandable Polystyrene Market, Segmentation by Application:

Construction

Packaging

Cold Chain

Automotive

Others

Companies Profiled:

BASF

SABIC

Synthos

BEWi

Knauf

Sunpor Kunststoff

Versalis

TotalEnergies

Styropek

StyroChem

Atlas EPS

ACH Foam Technologies

Insulfoam

Kaneka

Sekisui Plastics

JSP Corporation

Loyal Group

Taita Chemical

Wuxi Xingda New Foam Plastics Materials

Guangdong EPS New Materials

Key Questions Answered

1. How big is the global Expandable Polystyrene market?
2. What is the demand of the global Expandable Polystyrene market?
3. What is the year over year growth of the global Expandable Polystyrene market?
4. What is the total value of the global Expandable Polystyrene market?
5. Who are the Major Players in the global Expandable Polystyrene market?
6. What are the growth factors driving the market demand?

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