

Polyetherimide (PEI) - A Global Market Overview

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Abstracts

Polyetherimide (PEI) is a high-performance engineering thermoplastic valued for its outstanding heat resistance, dimensional stability, flame retardancy, and electrical insulation properties. These characteristics make PEI suitable for demanding applications in aerospace, automotive, electronics, and industrial equipment where materials must perform reliably under extreme conditions. As industries increasingly focus on lightweight components, high-temperature performance, and improved safety standards, PEI has emerged as an important material replacing metals and lower-grade plastics in many advanced engineering applications.

The global Polyetherimide (PEI) market reached a market value of US\$547.4 million in 2025, reflecting steady demand across transportation and electronics industries. Automotive and Electrical & Electronics represent the largest application segments, each accounting for around 31% share of global volume in 2025, driven by increasing adoption of PEI in EV electrical systems, connectors, circuit boards, and high-temperature automotive components. In value terms, Electrical & Electronics leads with a 25% share, followed by Automotive, while Aerospace & Military accounts for a significant share, reflecting the material's importance in aircraft interior components that must meet strict fire, smoke, and toxicity standards.

Looking ahead, the market is projected to reach US\$782.7 million, representing a 5.2% CAGR in value between 2025 and 2032. Growth will be supported by rising electric vehicle production, continued expansion in semiconductor and electronics manufacturing, and increasing use of lightweight materials in aerospace and transportation sectors. Asia-Pacific is expected to witness the fastest growth due to expanding electronics production and EV manufacturing, while the United States remains the largest regional market with around 51% share of global consumption in 2025. Currently, SABIC remains the only company producing polyetherimide (PEI) at a commercial industrial scale globally. However, the supply landscape is expected to

evolve as Guangdong Youju Advanced New Materials Co., Ltd., based in China, is constructing a new PEI production facility with a planned capacity of approximately 5,000 tons per year, which could introduce additional supply and gradually diversify the global PEI production base once operational.

Iran War Impact: 'Polyetherimide (PEI) is a high-performance thermoplastic produced using aromatic monomers and specialty chemical intermediates derived from petrochemical feedstocks. The production of PEI is therefore sensitive to volatility in aromatic chemical markets, energy prices, and global supply chain dynamics. Heightened geopolitical tensions in the Middle East have introduced uncertainty into petrochemical markets, which could indirectly influence the cost structure and supply conditions for PEI. Any sustained volatility in crude oil prices or disruptions in international shipping routes may affect feedstock availability and logistics costs across the value chain. At present, the situation remains fluid, and it is too early to quantify the potential impact on the PEI market outlook for 2026. Our research team continues to monitor developments in energy markets and petrochemical supply chains to evaluate any emerging risks.'

Polyetherimide (PEI) Regional Market Analysis

Regionally, the United States dominates the Polyetherimide (PEI) market, accounting for 51% share in 2025, supported by strong demand from aerospace, automotive, and advanced electronics manufacturing. Asia-Pacific is the second-largest region, driven by expanding electronics production, EV manufacturing, and industrial applications across China, Japan, and South Korea. From a growth perspective, Asia-Pacific is the fastest-growing region, projected to expand at a 6.3% CAGR to reach 8.4 thousand metric tons by 2032, reflecting increasing industrialization and emerging manufacturing hubs. Meanwhile, the United States is expected to grow at a moderate 4.3% CAGR, supported by continued innovation in aerospace and high-performance electronics.

Polyetherimide (PEI) Market Analysis by End-use Application

By end-use application, Electrical & Electronics leads with US\$134.7 million (24.6%), closely followed by Automotive. These segments benefit from PEI's high heat resistance, dimensional stability, and electrical insulation properties, which support its use in EV components, connectors, circuit boards, and high-performance automotive parts. Aerospace & Military also represents a key application in 2025, driven by demand for lightweight, flame-retardant aircraft interior components. In terms of growth, Automotive is the fastest-growing segment, expanding at 5.4% CAGR in volume

through 2032, closely followed by Aerospace & Military, supported by vehicle electrification and rising aircraft production. Electrical & Electronics, the second-largest segment, is projected to maintain strong growth in value, reaching US\$193.3 million by 2032.

Polyetherimide (PEI) Market Report Scope

This global report on Polyetherimide (PEI) analyzes the market based on end-use application and region for the period 2022-2032 with projections from 2025 to 2032 in terms of volume in metric tons and value in US\$. In addition to providing profiles of major companies operating in the PEI industry, the latest corporate, product and industrial developments have been covered to offer a clear panorama of Polyetherimide (PEI) industry.

Key Metrics

Historical Period: 2022-2025

Base Year: 2025

Forecast Period: 2025-2032

Units: Volume consumption in Metric Tons and Value market in US\$

Companies Mentioned: 10

Global Polyetherimide (PEI) Market by Geographic Region

The United States

Europe (France, Germany, Italy, The United Kingdom and other countries)

Asia-Pacific (China, Japan, India, South Korea and Rest of Asia-Pacific)

Rest of World

Global Polyetherimide (PEI) Market by End-Use Application

Automotive

Aerospace & Military

Consumer Goods

Electrical & Electronics

Mechanical/Industrial

Other Applications (include medical, healthcare, building and construction etc.)

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Consumer Goods

Electrical & Electronics

Mechanical/Industrial

Other Applications

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Polyetherimide (PEI) Manufacturers

SABIC Innovative Plastics

Guangdong Youju Advanced New Materials Co., Ltd.

Key Independent Compounders and Processors

Americhem

BIEGLO GmbH

Boedeker Plastics

Drake Plastics

Ensinger Plastics

RTP Company

UNINKO

Xiamen Keyuan Plastic Co.,Ltd

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Automotive

Aerospace & Military

Consumer Goods

Electrical & Electronics

Mechanical/Industrial

Other Applications

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GERMANY

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Asia-Pacific Polyetherimide (PEI) Market Overview by End-Use Application

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Chinese Polyetherimide (PEI) Market Overview by End-Use Application

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