

Polyetheretherketone (PEEK) - A Global Market Overview

<https://marketpublishers.com/r/P9073A11EFF1EN.html>

Date: March 2026

Pages: 194

Price: US\$ 3,600.00 (Single User License)

ID: P9073A11EFF1EN

Abstracts

Polyetheretherketone (PEEK) is among the highest performing engineering thermoplastics within the polyaryletherketone (PAEK) family, known for its exceptional mechanical strength, chemical resistance, and thermal stability. These characteristics enable PEEK to operate continuously at temperatures up to 240°C while maintaining structural integrity in aggressive chemical environments. As a result, the material has become increasingly important in demanding industries such as automotive, aerospace, electronics, industrial machinery, and medical technology where conventional polymers or metals may fail.

The global Polyetheretherketone (PEEK) market reached approximately US\$892 million in 2025, reflecting steady adoption of high-performance polymers in advanced manufacturing sectors. Growing emphasis on lightweight materials, corrosion resistance, and durability has encouraged manufacturers to replace metal components with high-performance thermoplastics such as PEEK. Demand is particularly strong in electric mobility systems, semiconductor equipment, aircraft components, and orthopedic medical implants where performance reliability and long service life are critical. Looking ahead, the market is projected to expand to 25.4 thousand metric tons by 2032, with total market value reaching around US\$1.7 billion, registering CAGR 9.6% in value during 2025-2032.

Leading companies in the global PEEK market include Victrex Plc, Evonik Industries AG, Syensqo SA, Polyplastics-Evonik Corporation, and Kingfa Science & Technology Co., Ltd. In addition, several emerging Chinese producers such as Jilin Zhongyan Polymer Materials, Panjin Zhongrun High Performance Polymer, and Shenzhen WOTE Advanced Materials are expanding production capacity and strengthening regional supply.

Iran War Impact: 'Polyetheretherketone (PEEK) is produced from high-purity aromatic intermediates derived from petrochemical feedstocks and involves energy-intensive polymerization processes. As a result, the PEEK value chain is closely linked to fluctuations in crude oil prices, aromatic chemical markets, and global logistics networks. Recent geopolitical tensions involving Iran have raised concerns about potential disruptions to petrochemical supply chains and shipping routes connecting Middle Eastern exports with global markets. Such developments could indirectly influence feedstock costs and production economics for PEEK used in aerospace, medical, and industrial applications. However, the situation remains in its early stages, and it is still premature to determine the overall impact on the PEEK market outlook for 2026. Our analysts are closely monitoring developments in energy markets, petrochemical trade flows, and producer strategies to assess potential implications for the PEEK value chain.'

Polyetheretherketone (PEEK) Regional Market Analysis

Regionally, Asia-Pacific dominated the global Polyetheretherketone (PEEK) market in 2025 with a 47% share of total volume consumption, significantly ahead of Europe which held the second largest share, followed by the United States. Asia-Pacific's leadership is supported by the rapid expansion of electronics manufacturing, automotive production, semiconductor fabrication, and industrial machinery, mainly in China where demand for high-performance engineering plastics continues to accelerate. Europe remains a major market due to its strong aerospace, automotive, and medical device industries, particularly in Germany, France, and the United Kingdom where advanced engineering polymers are widely used in aircraft systems, mobility technologies, and healthcare applications. During the forecast period, Asia-Pacific is also expected to register the fastest growth with a CAGR of 14.3% through 2032. In comparison, the United States is projected to grow at a CAGR of 9.6%, supported by strong aerospace and medical technology sectors.

Polyetheretherketone (PEEK) Market Analysis by End-use Application

Across end-use applications, automotive represented the largest segment of the Polyetheretherketone (PEEK) market in 2025, accounting for 30.5% of market value, reflecting strong demand for lightweight, high-temperature polymer components in drivetrain systems, sensors, and electric vehicle architectures. Electrical & electronics ranked as the second largest segment, supported by increasing use of PEEK in semiconductor processing equipment, connectors, and high-performance cable

insulation. During the forecast period, automotive and medical applications are expected to expand at strong rates of 11.6% and 11.5% CAGR respectively, while aerospace & military will also grow robustly, supported by rising adoption of lightweight high-performance polymers in aircraft structural components, connectors, and advanced engineering systems.

Polyetheretherketone (PEEK) Market Report Scope

This global report on Polyetheretherketone (PEEK) analyzes the market based on product type and End-use Application 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 PEEK industry, the latest corporate, product and industrial developments have been covered to offer a clear panorama of Polyetheretherketone (PEEK) 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: 15

Global Polyetheretherketone (PEEK) 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 Polyetheretherketone (PEEK) Market by End-Use Application

Automotive

Aerospace & Military

Electrical & Electronics

Mechanical/Industrial

Medical & Healthcare

Other Applications (include consumer & sporting goods, plumbing etc.)

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Mechanical/Industrial

Medical & Healthcare

Other Applications

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Global Polyetheretherketone (PEEK) Production Capacity

Polyetheretherketone (PEEK) Manufacturers

Changchun Jilin University Super Engineering Plastics Research Ltd (JUSEP)

Evonik Industries AG

Ganzhou Lichang New Materials Co., Ltd.

Jiangmen Youju New Materials Co., Ltd

Jilin Juke High-tech Materials Co., Ltd.

Jilin Zhongyan Polymer Materials Co., Ltd

Kingfa Science & Technology Co Ltd (Zhuhai Wantong Special Engineering Plastics Co., Ltd.)

Panjin Zhongrun High Performance Polymer Co., Ltd.

Polyplastics-Evonik Corporation

Shandong Horan Super Engineering Plastics Co., Ltd

Shandong Junhao High Performance Polymer Co., Ltd.

Shenzhen WOTE Advanced Materials Co.,Ltd.

Syensqo SA

Victrex Plc

Zhejiang Pfluon Technology Co., Ltd.

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Polyetheretherketone (PEEK) End-Use Application Market Overview by Global Region

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Chinese Polyetheretherketone (PEEK) Market Overview by End-Use Application

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