

# Global High-performance Engineering Plastic Parts Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global High-performance Engineering Plastic Parts market size is expected to reach \$ 44261 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

**High-performance Engineering Plastic Components:** Manufactured from specialised engineering plastics through processes including injection moulding, compression moulding, machining, and 3D printing. These components fulfil structural, functional, sealing, and transmission requirements under demanding conditions such as high temperatures, high pressures, severe corrosion, high abrasion resistance, high insulation properties, precision dimensions, and biocompatibility.

### Material Technology Trends

**High Performance:** Enhanced heat resistance (300°C+), increased strength, reduced friction, lower CTE

**Functionalisation:** Conductive/thermally conductive/electromagnetic shielding, self-lubricating, self-healing, biocompatible

**Sustainability:** Bio-based PEEK/PA, recyclable, low VOC, circular economy

**Domestic Production Breakthroughs:** Accelerated domestic substitution of high-end materials like PEEK, PI, LCP (2026 domestic PEEK production target ~60%)

### Processing and Manufacturing Trends

Precision Moulding: Micro-injection moulding, thin-wall moulding (0.1–0.2mm), high surface finish, high dimensional accuracy

Composite Technologies: Glass fibre/carbon fibre reinforcement, nano-filling, metal-plastic integration

Digitalisation/Intelligentisation: 3D printing (PEEK/PA12), digital moulding, online quality control

Cost Reduction: Mass production, process optimisation, declining material prices

Application Expansion Trends

New Energy Vehicles: 800V high-voltage insulation, lightweight structures, thermal management, motor/electronic control components

Humanoid Robots: Joints, Gears, Bearings, Structural Components (Tesla Optimus single unit PEEK usage: 6.6–6.9kg)

Medical Implants: Orthopaedics, Dentistry, Cardiovascular (Accelerated domestic substitution for PEEK)

5G/6G/AI: High-Frequency Connectors, Antennas, Filters, High-Speed Chip Packaging

Aerospace: Lightweight Structures, High-Temperature Insulation, Radiation-Resistant Components

This report studies the global High-performance Engineering Plastic Parts demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for High-performance Engineering Plastic Parts, 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 High-performance Engineering Plastic Parts that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global High-performance Engineering Plastic Parts total market, 2021-2032, (USD

Million)

Global High-performance Engineering Plastic Parts total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: High-performance Engineering Plastic Parts total market, key domestic companies, and share, (USD Million)

Global High-performance Engineering Plastic Parts revenue by player, revenue and market share 2021-2026, (USD Million)

Global High-performance Engineering Plastic Parts total market by Type, CAGR, 2021-2032, (USD Million)

Global High-performance Engineering Plastic Parts total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global High-performance Engineering Plastic Parts market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include BASF, DuPont, Solvay, Victrex, Evonik, Saudi Basic Industries Corporation (SABIC), Mitsubishi Engineering?Plastics Corporation (MEPC), Saint?Gobain High Performance Plastics (Shanghai) Co., Ltd., China Advanced Materials Co., Ltd., Nanjing Kent Composite Materials Co., Ltd., 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 High-performance Engineering Plastic Parts market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 High-performance Engineering Plastic Parts Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global High-performance Engineering Plastic Parts Market, Segmentation by Type:

Valve Seal

Compressor Seal

Other Seals

Insulation

Functional Structure

Corrosion Resistant Pipe

PTFE Membrane Products

Others

#### Global High-performance Engineering Plastic Parts Market, Segmentation by Material:

Polyetheretherketone (PEEK)

Polyimide (PI)

Polyphenylene Sulphide (PPS)

Liquid crystal Polymer (LCP)

Polysulfone (PSU/PES)

Fluoroplastic (PTFE/PFA)

Other

Global High-performance Engineering Plastic Parts Market, Segmentation by Sales Channels:

Direct Sales

Distribution

Global High-performance Engineering Plastic Parts Market, Segmentation by Application:

General Machinery Manufacturing

Car Manufacturer

High-speed Rail and Rail Transit Equipment Manufacturing

Communication Equipment Manufacturing

Instrumentation Manufacturing

Medical Instruments

Semiconductor Equipment

Others

Companies Profiled:

BASF

DuPont

Solvay

Victrex

Evonik

Saudi Basic Industries Corporation (SABIC)

Mitsubishi Engineering?Plastics Corporation (MEPC)

Saint?Gobain High Performance Plastics (Shanghai) Co., Ltd.

China Advanced Materials Co., Ltd.

Nanjing Kent Composite Materials Co., Ltd.

Zhongmi Holdings Co., Ltd.

Zhejiang Songhua New Materials Co., Ltd.

Valqua

Liaoning Huali High?Tech Materials Co., Ltd.

Kingfa Science and Technology Co., Ltd.

Guangwei Composite Materials Co., Ltd.

Shengbang Co., Ltd.

Chaojie Co., Ltd.

#### Key Questions Answered

1. How big is the global High-performance Engineering Plastic Parts market?
2. What is the demand of the global High-performance Engineering Plastic Parts market?
3. What is the year over year growth of the global High-performance Engineering Plastic Parts market?
4. What is the total value of the global High-performance Engineering Plastic Parts market?
5. Who are the Major Players in the global High-performance Engineering Plastic Parts market?
6. What are the growth factors driving the market demand?

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