

Engineering Plastics Market Size & Share Analysis - Growth Trends and Forecast (2026 - 2031)

> ****Industry:**** Polymers & Sustainable Chemicals (Chemicals & Materials)
> ****Source:**** https://www.mordorintelligence.com/industry-reports/engineering-plastics-market
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Executive Market Summary

Market Metric	Details
Base Market Size	USD 4.7 billion
Projected Forecast (2031)	USD 4.7 billion
Growth Rate (CAGR)	5.12 %
Largest Market Region	N/A
Fastest-Growing Region	N/A

Market Visualizations & Infographics

- [Major players in Engineering Plastics industry](images/chart_2.png)
- [Engineering Plastics Market Size](images/chart_3.png)
- [Engineering Plastics Market Share by Resin Type, 2025](images/chart_4.png)
- [Engineering Plastics Market Share by End-user Industry, 2025](images/chart_5.png)
- [Engineering Plastics Market Growth Rate by Region](images/chart_6.png)
- [Engineering Plastics Market Concentration](images/chart_7.png)
- [research-methodology](images/chart_8.svg)
- [Icon](images/chart_9.png)
- [footer background image](images/chart_11.png)
- [Mordor Intelligence on Facebook](images/chart_13.svg)
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- [ESOMAR](images/chart_18.png)
- [GPTW](images/chart_20.png)

Comprehensive Research Analysis

Overview Points List Flex 49 Share Feature End

Market Overview	Study Period	2021 - 2031
Market Volume (2026)		68.89 Million tons
Market Volume (2031)		88.42 Million tons
Growth Rate (2026 - 2031)		5.12 %
Fastest Growing Market		Asia Pacific
Largest Market		Asia Pacific
Market Concentration		Low

Major Players*Disclaimer: Major Players sorted in no particular order

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Market Overview

Engineering Plastics Market Analysis by Mordor Intelligence

The Engineering Plastics Market size is projected to expand from 65.53 Million tons in 2025 and 68.89 Million tons in 2026 to 88.42 Million tons by 2031, registering a CAGR of 5.12% between 2026 to 2031. Rising demand from mobility lightweighting programs, electrified power-train architectures, and semiconductor-fabrication investments is steering resin substitution away from metals and commodity polymers. Battery-module housings increasingly specify flame-retardant polyamides and polycarbonates that shave mass while simplifying thermal management. Simultaneously, chemical-recycling start-ups are injecting recycled feedstock into polyester and polyamide streams, enabling brand owners to meet recycled-content pledges without compromising mechanical performance. Competitive intensity remains moderate as the top five suppliers control roughly 38% of global capacity, yet fresh capacity announcements in Asia-Pacific and the United States hint at a supply-side reshuffle. Regulatory moves—particularly Europe's revised Packaging and Packaging Waste Regulation—are tightening virgin-resin use thresholds, pressuring converters to pivot toward circular grades.

Key Report Takeaways* By resin type, polyethylene terephthalate (PET) led with 50.15% of engineering plastics market share in 2025, while fluoropolymers are forecast to expand at a 7.24% CAGR through 2031.

* By end-user industry, packaging captured 50.66% of the engineering plastics market size in 2025, while electrical and electronics are advancing at a 7.01% CAGR to 2031.

* By geography, Asia-Pacific accounted for 55.78% of 2025 volume, while it is projected to grow at a region-leading 5.44% CAGR through 2031.

Key Market Trends

Market Trends and InsightsDrivers Impact Analysis of Engineering Plastics Market
*Driver | (~) % Impact on CAGR Forecast | Geographic Relevance | Impact Timeline

| Lightweighting Push in Mobility and Aerospace | +1.2% | Global, with concentration in North America, Europe, and China | Medium term (2-4 years) |

| Electrification-Led Demand Spike | +1.5% | APAC core, spill-over to North America and Europe | Short term (≤ 2 years) |

| Asia-Pacific Manufacturing Migration | +0.9% | APAC (China, India, ASEAN), with indirect effects in MEA | Long term (≥ 4 years) |

| EV Battery Module Housing Adoption | +0.8% | China, United States, Germany, South Korea | Medium term (2-4 years) |

| Chemical-Recycling Supply Boosts | +0.6% | North America and Europe, early pilots in Japan | Long term (≥ 4 years) |

Source: Mordor Intelligence |

Competitive Landscape

Competitive Landscape

Global capacity remains low concentrated, with BASF, Covestro, DuPont, SABIC, and Celanese sharing 32%. Envalior, birthed from DSM and Lanxess in 2024, wields EUR 3.85 billion in sales and chases EUR 120 million cost synergies by 2027. BASF's backward integration into adiponitrile and caprolactam insulated earnings during 2025's feedstock turbulence and delivered a 140-basis-point gain in polyamide share. SABIC's collaboration with Plastic Energy supplied 14,000 t of pyrolysis

s oil to European crackers, yielding certified-circular PC and ABS at 10-15% premiums. Arkema scaled bio-based PA-11 while Victrex earned AS9100D for PEEK filament, legitimizing aerospace additive manufacturing. Patent filings for halogen-free flame retardants rose 23% in 2025, pointing to future differentiation channels as environmental scrutiny intensifies across the engineering plastics industry. Smaller compounders continue to chase regional niches, yet rising compliance costs and feedstock volatility encourage consolidation or strategic alliances.

Engineering Plastics Industry Leaders* SABIC

- * BASF
- * DuPont
- * Covestro AG
- * Celanese Corporation

* *Disclaimer: Major Players sorted in no particular order
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Component Component 3 Scope Of The Report Bottom

Global Engineering Plastics Market Report ScopeEngineering plastics are high-performance thermoplastics characterized by superior mechanical, thermal, and chemical resistance compared to commodity plastics. They are designed for structural, long-term, and high-stress applications and are often used as substitutes for metal, glass, or ceramics due to their durability, strength, and reduced weight.

The engineering plastics market is segmented by resin type, end-user industry, and geography. By resin type, the market is segmented into polyethylene terephthalate (PET), fluoropolymer, liquid crystal polymer (LCP), polyamide (PA), polybutylene terephthalate (PBT), polycarbonate (PC), polyether ether ketone (PEEK), polyimide (PI), polymethyl methacrylate (PMMA), polyoxymethylene (POM), and styrene copolymers (ABS, SAN). By fluoropolymer, the market is further segmented into ethylenetetrafluoroethylene (ETFE), fluorinated ethylene-propylene (FEP), polytetrafluoroethylene (PTFE), polyvinylfluoride (PVF), polyvinylidene fluoride (PVDF), and other sub-resin types. By polyamide (PA), the market is further segmented into liquid crystal polymer (LCP), polyamide (PA), aramid, polyamide (PA) 6, polyamide (PA) 66, and polyphthalamide. By end-user industry, the market is segmented into packaging, aerospace, automotive, building and construction, electrical and electronics, industrial and machinery, and other end-user industries. The report also covers the market size and forecasts for engineering plastics in 20 countries across major regions. For each segment, the market sizing and forecasts have been done on the basis of volume (Tons).

By Resin TypePolyethylene Terephthalate (PET) |
Fluoropolymer | Ethylenetetrafluoroethylene (ETFE) |
| Fluorinated Ethylene-propylene (FEP) |
| Polytetrafluoroethylene (PTFE) |
| Polyvinylfluoride (PVF) |
| Polyvinylidene Fluoride (PVDF) |
| Other Sub Resin Types |
Liquid Crystal Polymer (LCP) |
Polyamide (PA) | Aramid |
| Polyamide (PA) 6 |
| Polyamide (PA) 66 |
| Polyphthalamide |
Polybutylene Terephthalate (PBT) |
Polycarbonate (PC) |
Polyether Ether Ketone (PEEK) |
Polyimide (PI) |

Polymethyl Methacrylate (PMMA) |
Polyoxymethylene (POM) |
Styrene Copolymers (ABS, SAN) |

Segmentation Accordion Item

By GeographyAsia-Pacific | China |
| India |
| Japan |
| South Korea |
| Australia |
| Malaysia |
| Rest of Asia-Pacific |
North America | United States |
| Canada |
| Mexico |
Europe | Germany |
| France |
| United Kingdom |
| Italy |
| Russia |
| Rest of Europe |
South America | Brazil |
| Argentina |
| Rest of South America |
Middle-East and Africa | Saudi Arabia |
| United Arab Emirates |
| South Africa |
| Nigeria |
| Rest of Middle-East and Africa |

Frequently Asked Questions

What is the projected volume of the engineering plastics market in 2031?

The engineering plastics market is forecast to reach 88.42 million tons by 2031.

Which resin type will grow the fastest through 2031?

Fluoropolymers are expected to register the fastest growth at a 7.24% CAGR through 2031.

How significant is Asia-Pacific in the engineering plastics market?

Asia-Pacific held 55.78% of 2025 volume and is projected to grow at a 5.44% CAGR, remaining the largest regional consumer.

Which end-user segment is outpacing others in growth?

Electrical and electronics applications are expanding at a 7.01% CAGR, the highest among all end-user industries.