

# **Engineering Plastics Market by Type (Polycarbonate, Polyamide, ABS, PET & PBT, POM, Fluoropolymer), End-use Industry (Automotive & Transport, Electrical & Electronics, Industrial & Machinery, Packaging) and Region - Global Forecast to 2027**

<https://marketpublishers.com/r/G2E7F0634ABEN.html>

Date: July 2022

Pages: 272

Price: US\$ 4,950.00 (Single User License)

ID: G2E7F0634ABEN

## **Abstracts**

The global engineering plastics market size is projected to grow from USD 107.2 billion in 2022 to USD 140.9 billion by 2027, at a CAGR of 5.6% from 2022 to 2027. The growth because of conventional materials not being suitable for high-temperature applications in automotive, industrial application, machinery, packaging and consumer appliances end- use industries. They are also not thermally conductive and durable in comparison to engineering plastics. This is prompting manufacturers to use engineering plastics in applications that require high heat resistance. Engineering plastics are, therefore, gradually replacing conventional materials, due to their high dimensional stability, continuous service temperature, high chemical resistance, and excellent mechanical properties.

“Polyacetal to be the fastest growing type in engineering plastics market ”

Polyacetal or polyoxymethylene (POM) is a type of engineering plastic made by the polymerization of formaldehyde. These are opaque, extremely hard, and crystalline engineering thermoplastics that offer outstanding strength, low coefficient of friction, stiffness, fatigue endurance, and excellent dimensional stability. It possesses superior mechanical, thermal, chemical, and electrical properties and provides high temperature, chemical, and abrasion resistance. POM has excellent resistance to a wide range of solvents and possesses good electrical properties making it suitable for electrical applications. The superior properties of POM make it suitable for applications in industrial machinery, automotive and plumbing applications, consumer goods, and

others. The key producers of POM are DuPont (US), Polyplastics Co. Ltd (Japan), BASF (Germany), and Korea Engineering Plastics (South Korea).

Traditionally, POM had applications primarily in the construction and automotive industries. New product development of POM in novel applications such as in medical devices is estimated to drive its demand further globally. In the automotive industry, as the demand for lighter, safer, and more fuel-efficient cars & trucks continues to grow, the demand for components using technologically advanced engineering plastics such as polyacetals is expected to increase during the forecast period.

“Consumer appliances to be the second largest end-use industry in engineering plastics during the forecast period.”

The consumer appliances industry is one of the growing end users of engineering plastics. Engineering plastics possess design flexibility and aesthetic appeal, which make them a preferred choice of material in this industry. Engineering plastics are widely used in water kettle parts, ironing boards, furniture parts such as castor wheels and chair bases, hair curlers, blower parts in hair dryers, compressor parts for refrigerators, kitchen tools, and gas canisters for cigarette lighters, taps, valves, and bathroom fittings, among others.

Conventionally metals were mostly used in the HVAC industry; however, with the advent of engineering plastics, the share of metals has drastically declined. Properties such as excellent smoke, heat, and abrasion resistance, along with the ability to damp unnecessary noise, have made engineering plastics the material of choice for the HVAC industry. Engineering plastics are widely used in the manufacturing of mobile and computer devices. They help reduce the size of components and have excellent desired electrical and thermal capabilities. They help make such devices lightweight and shockproof. Mobile phone covers and outer covers for electronic books are made from polycarbonate owing to the latter's excellent physical properties. Engineering plastics are also used as heat sinks in electronics applications.

“North America to be the third largest market for engineering plastics”

North America has for long been one of the critical markets for engineering plastics. The North American market mainly comprises the US, Canada, and Mexico; the US is the dominant market in the region, with a share of more than 60%. The market for engineering plastics in the US is driven by its local industrial demand as well as exports to NAFTA and South America. The North American Free Trade Agreement (NAFTA)

has helped in developing a close trade relationship between the US, Mexico, and Canada, which allows these countries to extend their product reach to the world's leading economies at lower costs. This will encourage the import and export of several products such as semiconductors and electronics. The US is expected to continue dominating the engineering plastics market in North America between 2022 and 2027. The largest share of the US in the North American market can primarily be attributed to its developing automotive & transportation and electrical & electronics industries.

This study has been validated through primaries conducted with various industry experts worldwide. These primary sources have been divided into 3 categories, namely by company, by designation, and by region.

By Company Type- Tier 1 – 30%, Tier 2 – 50%, Tier 3 – 20%

By Designation- C-Level Executives – 40%, Directors – 20%, Others– 40%

By Region- North America- 10%, Europe- 40%, Asia Pacific- 30%, South America – 10%, and Middle East & Africa - 10%

The engineering plastics market comprises major solution providers, BASF SE (Germany), Covestro AG (Germany), Solvay S.A. (Belgium), Celanese Corporation (US), The Dow Chemical Company (US), LG Chem Ltd. (South Korea), SABIC (Saudi Arabia), Evonik Industries AG (Germany), LANXESS AG (Germany) and Mitsubishi Chemical Holdings Corporation (Japan) among others. The study includes an in-depth competitive analysis of these key players in the engineering plastics market, with their company profiles, and key market strategies.

#### Research Coverage:

The report covers the engineering plastics market based on type (ABS, Polyamide, Polycarbonate, Thermoplastic Polyester (PET & PBT), Polyacetal, Fluoropolymer and Others), End-use Industry (Automotive & Transportation, Consumer Appliances, Electrical & Electronics, Industrial & Machinery, Packaging, and Others) and Region. The report also provides a comprehensive review of market drivers, restraints, opportunities, and challenges in the engineering plastics market. The report also covers qualitative aspects in addition to the quantitative aspects of these markets.

#### Key Benefits of Buying the Report:

*Engineering Plastics Market by Type (Polycarbonate, Polyamide, ABS, PET & PBT, POM, Fluoropolymer), End-use In...*

The report will help the leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall market and the sub-segments. This report will help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market.

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FIGURE 31 START-UPS AND SMALL AND MEDIUM-SIZED ENTERPRISES (SMES) EVALUATION MATRIX, 2021

#### 9.6 COMPETITIVE BENCHMARKING

TABLE 315 ENGINEERING PLASTICS MARKET: DETAILED LIST OF KEY PLAYERS

TABLE 316 ENGINEERING PLASTICS MARKET: COMPETITIVE BENCHMARKING OF KEY PLAYERS

TABLE 317 ENGINEERING PLASTICS MARKET: COMPETITIVE BENCHMARKING OF KEY PLAYERS

#### 9.7 COMPETITIVE SITUATION AND TRENDS

9.7.1 DEALS

TABLE 318 ENGINEERING PLASTICS MARKET: DEALS (2016–2022)

## 10 COMPANY PROFILES

(Business overview, Products offered, Recent Developments, MNM view)\*

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TABLE 319 BASF SE: COMPANY OVERVIEW

FIGURE 32 BASF SE: COMPANY SNAPSHOT

10.1.2 COVESTRO AG

TABLE 320 COVESTRO AG: COMPANY OVERVIEW

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10.1.3 SOLVAY S.A.

TABLE 321 SOLVAY S.A.: COMPANY OVERVIEW

FIGURE 34 SOLVAY S.A.: COMPANY SNAPSHOT

10.1.4 CELANESE CORPORATION

TABLE 322 CELANESE CORPORATION: COMPANY OVERVIEW

FIGURE 35 CELANESE CORPORATION: COMPANY SNAPSHOT

10.1.5 THE DOW CHEMICAL COMPANY

TABLE 323 THE DOW CHEMICAL COMPANY: COMPANY OVERVIEW

FIGURE 36 THE DOW CHEMICAL COMPANY: COMPANY SNAPSHOT

10.1.6 LG CHEM LTD.

TABLE 324 LG CHEM LTD.: COMPANY OVERVIEW

FIGURE 37 LG CHEM LTD.: COMPANY SNAPSHOT

10.1.7 SABIC

TABLE 325 SABIC: COMPANY OVERVIEW

FIGURE 38 SABIC: COMPANY SNAPSHOT

10.1.8 EVONIK INDUSTRIES AG

TABLE 326 EVONIK INDUSTRIES AG: COMPANY OVERVIEW

FIGURE 39 EVONIK INDUSTRIES AG: COMPANY SNAPSHOT

10.1.9 LANXESS AG

TABLE 327 LANXESS AG: COMPANY OVERVIEW

FIGURE 40 LANXESS AG: COMPANY SNAPSHOT

10.1.10 MITSUBISHI CHEMICAL HOLDINGS CORPORATION

TABLE 328 MITSUBISHI CHEMICAL HOLDINGS CORPORATION: COMPANY OVERVIEW

FIGURE 41 MITSUBISHI CHEMICAL HOLDINGS CORPORATION: COMPANY SNAPSHOT

10.2 ADDITIONAL PLAYERS

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TABLE 329 ASHLAND GLOBAL HOLDINGS, INC.: COMPANY OVERVIEW

10.2.2 ARKEMA SA

TABLE 330 ARKEMA SA: COMPANY OVERVIEW

10.2.3 ADVANSIX, INC.

TABLE 331 ADVANSIX, INC.: COMPANY OVERVIEW

10.2.4 ASAHI KASEI CORPORATION

TABLE 332 ASAHI KASEI CORPORATION: COMPANY OVERVIEW

10.2.5 CHI MEI CORPORATION

TABLE 333 CHI MEI CORPORATION: COMPANY OVERVIEW

10.2.6 CHEVRON PHILLIPS CHEMICAL COMPANY, LLC

TABLE 334 CHEVRON PHILLIPS CHEMICAL COMPANY, LLC: COMPANY OVERVIEW



#### 10.2.7 DAICEL CORPORATION

TABLE 335 DAICEL CORPORATION: COMPANY OVERVIEW

#### 10.2.8 3M COMPANY

TABLE 336 3M COMPANY: COMPANY OVERVIEW

#### 10.2.9 EASTMAN CHEMICAL COMPANY

TABLE 337 EASTMAN CHEMICAL COMPANY: COMPANY OVERVIEW

#### 10.2.10 GRAND PACIFIC PETROCHEMICAL CORPORATION

TABLE 338 GRAND PACIFIC PETROCHEMICAL CORPORATION: COMPANY OVERVIEW

#### 10.2.11 INEOS

TABLE 339 INEOS: COMPANY OVERVIEW

#### 10.2.12 NOVA CHEMICALS CORPORATION

TABLE 340 NOVA CHEMICALS CORPORATION: COMPANY OVERVIEW

#### 10.2.13 POLYPLASTICS CO., LTD

TABLE 341 POLYPLASTICS CO., LTD: COMPANY OVERVIEW

#### 10.2.14 R?CHLING SE & CO. KG

TABLE 342 R?CHLING SE & CO. KG: COMPANY OVERVIEW

#### 10.2.15 DSM ENGINEERING MATERIALS INC.

TABLE 343 DSM ENGINEERING MATERIALS INC.: COMPANY OVERVIEW

#### 10.2.16 TRINSEO PLC

TABLE 344 TRINSEO PLC: COMPANY OVERVIEW

\*Details on Business overview, Products offered, Recent Developments, MNM view might not be captured in case of unlisted companies.

## 11 APPENDIX

### 11.1 DISCUSSION GUIDE

### 11.2 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

### 11.3 AVAILABLE CUSTOMIZATIONS

### 11.4 RELATED REPORTS

### 11.5 AUTHOR DETAILS



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