

Global POE Plastic Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global POE Plastic market size is expected to reach \$ 3887 million by 2032, rising at a market growth of 4.0% CAGR during the forecast period (2026-2032).

POE (Polyolefin Elastomer) is a material formed by the copolymerization of ethylene and alpha-olefins. It is characterized by high elasticity, high impact strength, excellent weather resistance, low-temperature toughness, and good processability. Primarily used to enhance the flexibility, impact resistance, and aging resistance of polymer materials, it serves as a crucial functional material for photovoltaic (PV) encapsulant films, lightweight automotive materials, wire and cable products, modified plastics, and high-end packaging. In 2025, global POE sales volume is approximately 1.18 million tons, with an average unit price of around \$2,380 per ton and an overall capacity utilization rate of approximately 78.40%. Global POE production capacity is currently concentrated in the United States, Japan, South Korea, and the Middle East, while the Chinese market remains in a phase of rapid import substitution and industrial expansion. Upstream sectors primarily involve suppliers of petrochemical raw materials (such as ethylene, propylene, octene, and butene) as well as providers of metallocene catalysts, polymerization equipment, and fine chemicals. Downstream sectors mainly include manufacturers of PV encapsulant films, automotive parts, modified plastics, wires and cables, and consumer electronics materials; key customers include FirstPV, Haiyou New Materials, Saiwu Technology, LONGi Green Energy, JinkoSolar, BYD, Tesla, and CATL, alongside home appliance and automotive component manufacturers. The industry's average gross profit margin is approximately 28.60%; leading overseas enterprises possessing advanced catalyst technology and large-scale production capabilities can achieve margins exceeding 35%, whereas the margin for standard modified-grade POE products ranges from 20% to 30%. Regarding the product cost structure, raw materials (ethylene and alpha-olefins, including basic petrochemicals like

ethylene, 1-octene, and 1-butene) account for approximately 62.35%; catalysts and polymerization additives (including metallocene catalysts, antioxidants, and stabilizers) account for about 8.46%; energy and manufacturing/processing costs (covering polymerization reactions, electricity, steam, and equipment operation) account for approximately 12.28%; equipment depreciation and facility costs (including polymerization units, extrusion equipment, and testing equipment) account for about 9.37%; and other costs (including packaging, transportation, warehousing, and quality management) account for approximately 7.54%. Current demand primarily stems from sectors such as photovoltaic (PV) encapsulation films, automotive interior and exterior materials, new energy vehicle (NEV) battery components, wire and cable sheathing, high-end elastomer modification materials, home appliances, and consumer electronics; downstream clients include PV module manufacturers, automakers, plastics modification companies, electronics manufacturers, and new energy material enterprises. Future market opportunities will be driven by policy, technological innovation, and shifting consumer demands. The global expansion of the new energy industry is fueling continuous growth in PV installations; POE has emerged as a key encapsulation material for N-type PV modules due to its superior resistance to Potential-Induced Degradation (PID) and excellent weatherability, driving a rapid rise in demand for PV-grade POE. On the technology front, domestic enterprises are achieving breakthroughs in metallocene catalysts, high-pressure polymerization processes, and production equipment technologies, thereby accelerating the localization of POE and reducing reliance on imports. Finally, rising demand for NEVs, smart appliances, and high-performance consumer electronics is driving the need for lightweight, highly durable, and high-performance elastomeric materials, creating new growth opportunities for POE plastics.

POE (polyolefin elastomer) plastics represent a key direction for the future development of high-performance polyolefin materials. In recent years, the market has garnered increasing attention, driven by rising demand in sectors such as photovoltaics (PV), new energy vehicles (NEVs), and high-end modified materials. Currently, the global POE industry remains highly concentrated; major players—including Dow (USA), Mitsui Chemicals (Japan), LG Chem (South Korea), and SABIC (Saudi Arabia)—hold the majority market share, leveraging long-standing technical expertise and mature supply chains. Due to the high technical barriers associated with POE production—such as metallocene catalyst development, polymerization process control, and equipment stability—China has long relied on imports, resulting in a relatively low domestic production rate. As the global PV industry shifts toward high-efficiency cell technologies—such as N-type TOPCon, HJT, and perovskite tandem cells—there is an increasing demand for superior encapsulation material performance. Thanks to its low

water vapor transmission rate, high weatherability, and excellent aging resistance, POE has increasingly become a vital material for high-end PV encapsulant films. Recently, Chinese companies have accelerated their POE project deployments; firms such as Satellite Chemical, Wanhua Chemical, Oriental Shenghong, and Rongsheng Petrochemical are continuously advancing R&D and capacity expansion, thereby boosting domestic supply capabilities. Future market competition will shift from a mere race for production capacity to a contest based on technology, cost, and product structure; companies possessing independent catalyst R&D capabilities and stable mass-production capacity will secure a significant competitive edge. Regarding policy, the global energy transition, green manufacturing, and the growth of the NEV industry continue to drive demand for high-performance polymer materials. On the technical front, innovations in catalysts, efficient polymerization processes, and intelligent manufacturing technologies are constantly enhancing POE production efficiency and product performance. In terms of applications, the growing need for lightweight NEVs, highly reliable PV modules, and durable consumer electronics will further expand the scope of POE usage. In the long term, POE plastics are poised for sustained growth in sectors such as PV encapsulation, high-end automotive materials, and functional modification; as Chinese enterprises achieve technological breakthroughs and supply chain maturation, they are expected to gradually reduce import reliance and enhance their competitiveness in the global market.

This report studies the global POE Plastic production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for POE Plastic 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 POE Plastic that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global POE Plastic total production and demand, 2021-2032, (K Tons)

Global POE Plastic total production value, 2021-2032, (USD Million)

Global POE Plastic production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Tons), (based on production site)

Global POE Plastic consumption by region & country, CAGR, 2021-2032 & (K Tons)

U.S. VS China: POE Plastic domestic production, consumption, key domestic manufacturers and share

Global POE Plastic production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Tons)

Global POE Plastic production by Comonomer Type, production, value, CAGR, 2021-2032, (USD Million) & (K Tons)

Global POE Plastic production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Tons)

This report profiles key players in the global POE Plastic market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Dow Inc. (US), Exxon Mobil Corporation (US), LG Chem Ltd. (KR), Hanwha Solutions Corporation (KR), Mitsui-Dow Polychemical Co., Ltd. (JP), Braskem S.A. (BR), SABIC (SA), Tosoh Corporation (JP), Formosa Plastics Corporation (TW), BASF SE (DE), 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 POE Plastic market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Tons) and average price (US\$/Ton) by manufacturer, by Comonomer 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 POE Plastic Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global POE Plastic Market, Segmentation by Comonomer Type:

C4 Type (Butene-based)

C6 Type (Hexene-based)

C8 Type (Octene-based)

Global POE Plastic Market, Segmentation by Density:

? 0.86 g/cm?

0.86- 0.88 g/cm?

> 0.88 g/cm?

Global POE Plastic Market, Segmentation by Melt Index:

Low Melt Index (? 1 g/10min)

Medium Melt Index (1-10 g/10min)

High Melt Index (> 10 g/10min)

Global POE Plastic Market, Segmentation by Application:

Automotive Part

Consumer Products

Wire and Cable

Foam and Footwear

Packaging Products

Other

Companies Profiled:

Dow Inc. (US)

Exxon Mobil Corporation (US)

LG Chem Ltd. (KR)

Hanwha Solutions Corporation (KR)

Mitsui-Dow Polychemical Co., Ltd. (JP)

Braskem S.A. (BR)

SABIC (SA)

Tosoh Corporation (JP)

Formosa Plastics Corporation (TW)

BASF SE (DE)

Celanese Corporation (US)

INEOS Group Holdings S.A. (UK)

Sinopec Corporation (CN)

PetroChina Company Limited (CN)

Wanhua Chemical Group Co., Ltd. (CN)

Sichuan Vinyon Works Co., Ltd. (CN)

Key Questions Answered:

1. How big is the global POE Plastic market?
2. What is the demand of the global POE Plastic market?
3. What is the year over year growth of the global POE Plastic market?
4. What is the production and production value of the global POE Plastic market?
5. Who are the key producers in the global POE Plastic market?
6. What are the growth factors driving the market demand?

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