

Global Low-Dielectric Thermosetting PPO Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Low-Dielectric Thermosetting PPO market size is expected to reach \$ 1299 million by 2032, rising at a market growth of 13.6% CAGR during the forecast period (2026-2032).

Low-Dielectric Thermosetting PPO is a high-purity electronic-grade thermosetting resin based on polyphenylene ether (PPE/PPO) through chemical modification or end-group regulation. It is characterized by low dielectric constant, low dielectric loss, low metal impurity content, and high thermal stability, making it suitable for high-frequency electronic applications such as high-speed PCBs, HDI boards, AI server boards, and power electronic modules. Through end-group modification, low molecular weight control, or copolymerization modification, the resin's flowability, compatibility, and curing performance can be optimized while maintaining electronic-grade performance indicators, ensuring high-speed signal transmission stability and high-temperature processing reliability. In 2025, global shipments of Low-Dielectric Thermosetting PPO were approximately 3,625 tons, with a unit price of approximately US\$114,200 per ton and a gross profit margin of approximately 58%-70%.

Supply and Demand Status: Global Low-Dielectric Thermosetting PPO production capacity is highly concentrated, with a few international leaders such as SABIC long monopolizing the high-end market. Supply is significantly less than demand, resulting in a structural shortage in the market. Domestic companies such as Shengquan Group and Dongcai Technology are rapidly deploying thousand-ton-level production lines, but overall supply remains tight.

Future Demand Explosion: With the rapid growth of AI servers, high-frequency PCBs, 5G/6G communication equipment, and new energy vehicle electronic modules, the

market demand for low-dielectric modified polyphenylene ether is expected to increase significantly between 2025 and 2032.

Market Structure: SABIC maintains its technological and brand leadership, holding the highest global market share. Domestic companies, through the construction of thousand-ton-level production lines and joint development with downstream customers, are expected to occupy approximately 65-70% of global Low-Dielectric Thermosetting PPO production capacity in the short term, demonstrating a clear trend towards domestic production. The overall industry presents a pattern of 'high prices, low volume, supply falling short of demand, and rapid domestic catching up.'

Price and Gross Profit: Low-Dielectric Thermosetting PPO has a selling price of approximately RMB 700,000–1,200,000 per ton, with a gross profit margin as high as 58%–70%, exhibiting typical characteristics of high-end specialty plastics.

This report studies the global Low-Dielectric Thermosetting PPO production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Low-Dielectric Thermosetting PPO 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 Low-Dielectric Thermosetting PPO that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Low-Dielectric Thermosetting PPO total production and demand, 2021-2032, (Tons)

Global Low-Dielectric Thermosetting PPO total production value, 2021-2032, (USD Million)

Global Low-Dielectric Thermosetting PPO production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Low-Dielectric Thermosetting PPO consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Low-Dielectric Thermosetting PPO domestic production, consumption, key domestic manufacturers and share

Global Low-Dielectric Thermosetting PPO production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Low-Dielectric Thermosetting PPO production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Low-Dielectric Thermosetting PPO production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Low-Dielectric Thermosetting PPO 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 Mitsubishi Gas Chemical, SABIC, Asahi Kasei, Kolon Industries, Chin Yee, Jinan Shengquan Group Share Holding Co., Ltd., Sichuan Emt Echnologyco.,Ltd., Guangdong Silver Age Sci & Tech Co., Ltd., Tongyu Advanced Materials (Guangdong) Co., Ltd., Nantong Xingchen Synthetic Material 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 Low-Dielectric Thermosetting PPO market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, 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 Low-Dielectric Thermosetting PPO Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Low-Dielectric Thermosetting PPO Market, Segmentation by Type:

Df
0.002 ? Df

Global Low-Dielectric Thermosetting PPO Market, Segmentation by Purity:

?99.9995%?5N?
99.99–99.9995%

Global Low-Dielectric Thermosetting PPO Market, Segmentation by Channel:

Direct Sales
Distribution

Global Low-Dielectric Thermosetting PPO Market, Segmentation by Application:

AI Servers
5G/6G Base Stations
High-end Copper Clad Laminates (CCL)
Others

Companies Profiled:

Mitsubishi Gas Chemical

SABIC

Asahi Kasei

Kolon Industries

Chin Yee

Jinan Shengquan Group Share Holding Co., Ltd.

Sichuan Emt Echnologyco.,Ltd.

Guangdong Silver Age Sci & Tech Co., Ltd.

Tongyu Advanced Materials (Guangdong) Co., Ltd.

Nantong Xingchen Synthetic Material Co., Ltd.

Hebei Jianxin Biotechnology Co., Ltd.

Sinbo New Material Co., Ltd.

Key Questions Answered:

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

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