

Global Photosensitive Polyimide for Semiconductor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Photosensitive Polyimide for Semiconductor market size is expected to reach \$ 2092 million by 2032, rising at a market growth of 13.7% CAGR during the forecast period (2026-2032).

Photosensitive Polyimide for Semiconductor is a high-performance photopatternable dielectric and protective polymer material, usually supplied as a liquid polyimide precursor, photosensitive polyamic acid/polyamic ester system, PBO precursor, or dry-film photosensitive insulating material. It can be coated, exposed, developed, and cured to form patterned insulating, passivation, buffer, stress-relief, or redistribution dielectric layers in semiconductor wafers, advanced packaging, fan-out packaging, power devices, MEMS, CMOS image sensors, and related microelectronic devices. In 2025, global Photosensitive Polyimide for Semiconductor production reached approximately 528 MT.

The market is mainly driven by the rapid growth of advanced semiconductor packaging. As wafer-level packaging, fan-out packaging, 2.5D/3D integration, chiplets, redistribution layers and high-density interconnect structures become more widely used, semiconductor manufacturers need dielectric materials that can provide fine patterning, strong insulation, good adhesion to metal and dielectric surfaces, thermal stability, chemical resistance and stress buffering. Photosensitive polyimide and photosensitive PBO reduce process complexity because they can be directly patterned by exposure and development, avoiding some additional photoresist and etching steps. This makes PSPI particularly important in RDL formation, passivation openings, bump structures, under-bump dielectric layers and high-reliability package protection.

A second major driver is the transition toward thinner, more complex and more reliability-

sensitive chips. In logic, memory, power semiconductors, CMOS image sensors and compound semiconductor devices, materials around pads, Cu wiring, solder bumps and passivation openings must withstand thermal cycling, moisture, mechanical stress, wafer thinning, bonding, reflow and long-term field operation. PSPI provides a combination of heat resistance, flexibility, dielectric performance and low moisture uptake that is difficult for many conventional photoresists or organic insulators to match. The development of low-temperature curable, alkaline-developable, NMP-free, dry-film and panel-level packaging compatible PSPI products further expands its use in next-generation packaging processes.

This report studies the global Photosensitive Polyimide for Semiconductor production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Photosensitive Polyimide for Semiconductor total production and demand, 2021-2032, (Tons)

Global Photosensitive Polyimide for Semiconductor total production value, 2021-2032, (USD Million)

Global Photosensitive Polyimide for Semiconductor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Photosensitive Polyimide for Semiconductor consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Photosensitive Polyimide for Semiconductor domestic production, consumption, key domestic manufacturers and share

Global Photosensitive Polyimide for Semiconductor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Photosensitive Polyimide for Semiconductor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Photosensitive Polyimide for Semiconductor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Photosensitive Polyimide for Semiconductor 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 Toray, HD Microsystems, Aisen, Asahi Kasei, Eternal Materials, Fujifilm Electronic Materials, Pome, Sumitomo Bakelite, 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 Photosensitive Polyimide for Semiconductor 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 Photosensitive Polyimide for Semiconductor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Photosensitive Polyimide for Semiconductor Market, Segmentation by Type:

Negative Photosensitive Polyimide

Positive Photosensitive Polyimide

Global Photosensitive Polyimide for Semiconductor Market, Segmentation by Feature:

High-temperature Curing PSPI

Low-temperature Curing PSPI

Global Photosensitive Polyimide for Semiconductor Market, Segmentation by Form:

Liquid

Dry Film

Global Photosensitive Polyimide for Semiconductor Market, Segmentation by Application:

Printed Circuit Board

Integrated Circuit

Chip

Others

Companies Profiled:

Toray

HD Microsystems

Aisen

Asahi Kasei

Eternal Materials

Fujifilm Electronic Materials

Pome

Sumitomo Bakelite

Key Questions Answered:

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

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