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Global Photosensitive Dry Film for PCB Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Photosensitive Dry Film for PCB market size is expected to reach $ 3407 million by 2032, rising at a market growth of 5.3% CAGR during the forecast period (2026-2032).

Photosensitive dry film is a specialized product in PCB manufacturing, typically composed of three parts: polyethylene (PE) film, photoresist film, and polyester film (PET). The photoresist film, also known as the photosensitive layer, is the most crucial component of the photosensitive dry film, its main component being photosensitive materials used for photolithography. The polyester film serves as the carrier for the photosensitive layer, used to mix and coat the photosensitive materials. The PE film acts as a protective layer for the photosensitive dry film, primarily functioning to isolate oxygen, prevent delamination, and avoid mechanical scratches. Photosensitive dry film plays a decisive role in the quality of PCB circuit boards. It is mainly used in PCBs for aerospace, computers, medical instruments, consumer electronics, automotive electronics, and communication electronics. As a vital raw material for developing high-end PCBs, photosensitive dry film significantly impacts PCB quality. Photosensitive dry film features high resolution, high line accuracy, and good image continuity, contributing to the mechanization and automation of PCB manufacturing processes. While it accounts for a relatively small percentage (approximately 2%-3%) of the PCB cost, it is crucial. Based on the properties of the photoresist, photosensitive dry films can be divided into positive photosensitive dry films and negative photosensitive dry films. Positive tone dry films made with positive photoresist have higher resolution during development and the film does not swell, but the cost is higher. Therefore, negative tone dry films made with negative photoresist are more widely used.

In 2025, the global production of photosensitive dry film for PCBs is approximately

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2.9218 billion square meters, with a unit price of approximately US$0.79 per square meter and a gross profit margin of 24.1%. Hangzhou First Applied Material Co., Ltd. has a production capacity of 2.5 million square meters per month.

As electronic products evolve towards higher precision, thinner designs, and more integrated functions, the demand for refined printed circuit board (PCB) manufacturing continues to grow, driving the increasing importance of photosensitive dry film as a fundamental photolithography material. The rapid increase in demand for high-density interconnect (HDI), flexible PCBs, and rigid-flex PCBs from consumer electronics, communication infrastructure, automotive electronics, and IoT terminals has led to a corresponding expansion in the demand for high-resolution, high-contrast dry film photolithography materials. Furthermore, the widespread adoption of environmentally friendly manufacturing processes and solvent-free materials gives photosensitive dry film a greater competitive advantage in production environments. While the market prospects are broad, the industry still faces the dual challenges of technological barriers and intensified competition. On the one hand, the increasingly stringent requirements for optical uniformity, thermal stability, and processing compatibility of high-performance dry films make R&D investment and technological accumulation core barriers to competition for enterprises. On the other hand, alternative technologies such as laser direct writing (LDI), advanced liquid photoresists, and direct imaging technologies are exerting substitution pressure on photosensitive dry films in some niche markets. Furthermore, fluctuations in upstream raw material prices, supply chain coordination, and uneven regional production capacity distribution also pose potential risks to market participants. From the perspective of downstream demand, consumer electronics remains the largest single market for photosensitive dry films, especially driven by the mass production of PCBs in smartphones, tablets, laptops, and wearable devices, resulting in stable growth in dry film demand. Meanwhile, the rapid expansion of the automotive electronics and new energy vehicle markets has increased the demand for high-reliability PCBs, placing higher technical requirements on dry film lithography materials. The growth of flexible and rigid-flex PCBs will further expand the application space of photosensitive dry films in the manufacturing of flexible electronics and bendable devices. In the future, with the widespread application of high-frequency, high-speed boards, miniaturized and multi-layer complex structure PCBs, the photosensitive dry film market is expected to continue to maintain a medium-to-high-speed growth trend.

This report studies the global Photosensitive Dry Film for PCB production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Photosensitive Dry Film for PCB total production and demand, 2021-2032, (K Sqm)
Global Photosensitive Dry Film for PCB total production value, 2021-2032, (USD Million)
Global Photosensitive Dry Film for PCB production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)
Global Photosensitive Dry Film for PCB consumption by region & country, CAGR, 2021-2032 & (K Sqm)
U.S. VS China: Photosensitive Dry Film for PCB domestic production, consumption, key domestic manufacturers and share
Global Photosensitive Dry Film for PCB production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sqm)
Global Photosensitive Dry Film for PCB production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)
Global Photosensitive Dry Film for PCB production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global Photosensitive Dry Film for PCB 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 Asahi Kasei, Resonac Corporation, KOLON Industries, Elga Europe, DuPont, Eternal Materials Co., Ltd., Chang Chun Group, Hangzhou First Applied Material Co., Ltd., Shenzhen Rongda Photosensitive & Technology Co.,Ltd., Crystal Clear Electronic 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 Photosensitive Dry Film for PCB market

Detailed Segmentation:

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Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Sqm) and average price (US$/Sq m) 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 Dry Film for PCB Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Photosensitive Dry Film for PCB Market, Segmentation by Type:

1-10 µm

11-50 µm

51-100 µm

Above 100 µm

Others

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Global Photosensitive Dry Film for PCB Market, Segmentation by PCB:

Rigid PCB

Flexible PCB

Rigid-Flex PCB

IC Substrate

HDI PCB

Global Photosensitive Dry Film for PCB Market, Segmentation by Material:

Positive Tone Dry Film

Negative Tone Dry Film

Global Photosensitive Dry Film for PCB Market, Segmentation by Application:

Aerospace Technology

Computers

Medical Instruments

Consumer Electronics

Automotive Electronics

Communication Electronics

Companies Profiled:

Asahi Kasei

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Resonac Corporation

KOLON Industries

Elga Europe

DuPont

Eternal Materials Co., Ltd.

Chang Chun Group

Hangzhou First Applied Material Co., Ltd.

Shenzhen Rongda Photosensitive & Technology Co.,Ltd.

Crystal Clear Electronic Material Co.,Ltd.

Red Avenue New Materials Group Co., Ltd.

Hunan Initial New Materials Co., Ltd.

Key Questions Answered:

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

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