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Global Photosensitive Dry Film for PCB Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

https://marketpublishers.com/r/P92B41BA65BDEN.html
Date: February 2026
Pages: 124
Price: US$ 3,480.00 (Single User License)
ID: P92B41BA65BDEN

Abstracts

According to our (Global Info Research) latest study, the global Photosensitive Dry Film for PCB market size was valued at US$ 2375 million in 2025 and is forecast to a readjusted size of US$ 3407 million by 2032 with a CAGR of 5.3% during review period.

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.

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In 2025, the global production of photosensitive dry film for PCBs is approximately 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 is a detailed and comprehensive analysis for global Photosensitive Dry Film for PCB market. Both quantitative and qualitative analyses are presented by

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manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Photosensitive Dry Film for PCB market size and forecasts, in consumption value ($ Million), sales quantity (K Sqm), and average selling prices (US$/Sq m), 2021-2032

Global Photosensitive Dry Film for PCB market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Sqm), and average selling prices (US$/Sq m), 2021-2032

Global Photosensitive Dry Film for PCB market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Sqm), and average selling prices (US$/Sq m), 2021-2032

Global Photosensitive Dry Film for PCB market shares of main players, shipments in revenue ($ Million), sales quantity (K Sqm), and ASP (US$/Sq m), 2021-2026

The Primary Objectives in This Report Are:
To determine the size of the total market opportunity of global and key countries
To assess the growth potential for Photosensitive Dry Film for PCB
To forecast future growth in each product and end-use market
To assess competitive factors affecting the marketplace

This report profiles key players in the global Photosensitive Dry Film for PCB market based on the following parameters - company overview, sales quantity, revenue, 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.

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Market Segmentation

Photosensitive Dry Film for PCB market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

1?10 µm

11?50 µm

51?100 µm

Above 100 µm

Others

Market segment by PCB

Rigid PCB

Flexible PCB

Rigid?Flex PCB

IC Substrate

HDI PCB

Market segment by Material

Positive Tone Dry Film

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Negative Tone Dry Film

Market segment by Application

Aerospace Technology

Computers

Medical Instruments

Consumer Electronics

Automotive Electronics

Communication Electronics

Major players covered

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.

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Red Avenue New Materials Group Co., Ltd.

Hunan Initial New Materials Co., Ltd.

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Photosensitive Dry Film for PCB product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Photosensitive Dry Film for PCB, with price, sales quantity, revenue, and global market share of Photosensitive Dry Film for PCB from 2021 to 2026.

Chapter 3, the Photosensitive Dry Film for PCB competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Photosensitive Dry Film for PCB breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Photosensitive Dry Film for PCB market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Photosensitive Dry Film for PCB.

Chapter 14 and 15, to describe Photosensitive Dry Film for PCB sales channel, distributors, customers, research findings and conclusion.

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