

# **Photoresist Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (ARF Immersion Photoresist, ARF Dry Photoresist, KRF Photoresist, G-Line & I-Line Photoresist), By Application (Semiconductors & ICs, LCDs, Printed Circuit Boards, Others), By Region and Competition, 2020-2030F**

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## **Abstracts**

### Market Overview

The Global Photoresist Market was valued at USD 3.76 Billion in 2024 and is projected to reach USD 4.77 Billion by 2030, growing at a CAGR of 4.26% during the forecast period. Photoresists, along with lithographic techniques, have become foundational technologies across a wide range of advanced applications, including integrated circuits (ICs), MEMS, microelectronics, microfluidics, data storage, and biotechnology. The lithography sector has seen substantial innovation, particularly with the growing use of polymer-based methods. Among the most widely used techniques in both academic and industrial domains are optical lithography and electron-beam (e-beam) lithography. The critical role of photoresists in microfabrication processes continues to expand as demand increases across semiconductor and electronics manufacturing, reflecting their indispensable place in modern technological ecosystems.

### Key Market Drivers

Rise in Demand of MEMS and Sensors

Photoresists, as light-sensitive materials, are integral to the fabrication of

Microelectromechanical Systems (MEMS) and sensors, serving a crucial role in various microfabrication techniques. For instance, India's Semi-Conductor Laboratory (SCL) is equipped to process 150-mm (6') silicon substrates, including advanced types like SOI wafers and high-resistivity silicon wafers. The facility operates with comprehensive CMOS-based fabrication processes, including lithography, deposition, etching, and ion implantation, all performed within a Class-10 cleanroom. These processes support the production of key components in sectors such as consumer electronics, automotive, industrial automation, and healthcare. As demand for compact, high-performance devices grows, the requirement for advanced photoresist materials in MEMS and sensor production is also accelerating.

## Key Market Challenges

### Disruptions in Supply Chain

Supply chain disruptions continue to pose a substantial challenge for the Global Photoresist Market. Since the onset of the pandemic, factory shutdowns, transport delays, and complex regulatory landscapes have severely affected production cycles. These obstacles are particularly impactful in the photoresist industry, where consistent material availability is essential to semiconductor and electronic device manufacturing.

The consequences of these disruptions go beyond the photoresist segment, affecting broader supply chains and exacerbating the ongoing semiconductor shortage. As photoresists are a critical element in chip manufacturing, any interruption in their supply directly impacts fabrication efficiency and the ability to meet rising global demand. Ensuring a stable and resilient supply chain is vital to maintaining competitiveness and supporting the overall electronics ecosystem.

## Key Market Trends

### Growing Emphasis on Sustainability

Sustainability is becoming a key trend in the Global Photoresist Market, fueled by stringent environmental regulations and rising pressure to adopt eco-friendly practices. Innovations such as water-based and bio-based photoresists are gaining traction for their biodegradability and reduced reliance on hazardous chemicals. These advancements align with the industry's shift toward greener manufacturing processes and global efforts to mitigate climate change.

The production of photoresists involves solvents, developers, and other chemicals that can pose environmental and health risks if not properly managed. With global regulatory bodies tightening rules around emissions and hazardous substances—including PFAS and VOCs—manufacturers are being compelled to reformulate materials and improve waste management practices. This shift not only supports environmental goals but also positions sustainable photoresist technologies as a competitive differentiator in the evolving market landscape.

### Key Market Players

ALLRESIST GmbH

Asahi Kasei Corporation

DJ MicroLaminates, Inc.

DuPont de Nemours Inc

FUJIFILM Holdings America Corporation

JSR Corporation

KOLON Industries, Inc

Microchemicals GmbH

Sumitomo Chemical Co., Ltd.

Shin-Etsu Chemical Co., Ltd.

### Report Scope:

In this report, the Global Photoresist Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

### Photoresist Market, By Type:

ARF Immersion Photoresist

ARF Dry Photoresist

KRF Photoresist

G-Line & I-Line Photoresist

### Photoresist Market, By Application:

Semiconductors & ICs

LCDs

Printed Circuit Boards

Others

### Photoresist Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Photoresist Market.

Available Customizations:

Global Photoresist Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

#### Company Information

Detailed analysis and profiling of additional market players (up to five).

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