

Global Black Matrix Resist for Semiconductor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Black Matrix Resist for Semiconductor market size is expected to reach \$ 19769 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

Black matrix resist for semiconductor applications is a high-performance photosensitive light-shielding material designed for image sensors, wafer-level lenses, and optical semiconductor devices. It is mainly used to address pixel-to-pixel crosstalk, chip-frame light leakage, backside stray light, near-infrared interference, and reflection control in micro-optical structures. This type of product is typically based on negative-tone photosensitive resin, non-carbon-black light-shielding systems, color-pigment composite systems, photoinitiators, crosslinking monomers, solvents, and ultra-clean filtration processes. Through spin coating, slit coating, prebaking, exposure, development, and postbaking, it forms a patternable black film with high optical density, low reflectance, and strong heat and light resistance. Its core functions include visible-light and near-infrared shielding, black matrix pattern definition, optical black-area shielding, chip backside shielding, and wafer-level lens aperture formation. Typical customers include CMOS image sensor manufacturers, wafer-level optical module manufacturers, advanced packaging companies, optical sensor manufacturers, and high-end display material companies.

Black matrix resist for semiconductor applications is evolving from a black matrix resist within display material systems into a dedicated light-shielding material for image sensors and wafer-level optical devices. Its value is no longer limited to preventing RGB pixel crosstalk in color filters, but has expanded to chip-frame shielding, backside shielding, wafer-level lens apertures, optical black areas, and near-infrared interference control. As CMOS image sensors continue to increase in smartphones, vehicles,

security systems, machine vision, and spatial-sensing terminals, the demand for internal optical path management in devices is rising significantly. The material must achieve high optical density, low reflectance, clean pattern edges, and stable heat and light resistance at thinner film thicknesses. Since this type of product directly affects imaging noise, crosstalk, dark-current compensation, and post-packaging optical consistency, customer qualification focuses not only on material parameters, but also on wafer coating uniformity, development residue, particle control, and long-term supply stability. Therefore, the industry barriers are significantly higher than those of ordinary black coatings or low-end display materials.

From a technology perspective, non-carbon black systems, color-pigment composite systems, high-resistivity carbon black systems, and near-infrared transmissive black materials represent the main development directions. Non-carbon black systems are more suitable for high-end image sensor applications that require both visible-light and near-infrared shielding. Color-pigment composite systems help balance specific wavelength-band requirements and reflectance performance. High-resistivity carbon black systems are suitable for display and touch-panel applications that emphasize electrical reliability and light-shielding efficiency. Near-infrared transmissive black materials are targeted at LiDAR, ToF, biometric recognition, and automotive sensor windows. Future competition will shift from a single optical density metric toward integrated performance, including micron-level linewidth control, low-temperature curing, wide exposure latitude, low reflectance, low ionic contamination, strong adhesion, and compatibility with downstream coating equipment. As customers increasingly require customized spectral curves and advanced packaging compatibility, companies with formulation design, ultra-clean manufacturing, and application process support capabilities will be more likely to enter core supply chains.

From a regional and competitive perspective, Japanese companies have strong accumulated capabilities in photosensitive resins, pigment dispersion, optical materials, and high-end customer qualification, while Taiwan-based companies rely on their proximity to panel, touch-panel, packaging, and sensor customers to build rapid iteration capabilities. On the demand side, Asia Pacific remains the core consumption region, mainly driven by concentrated capacity in image sensors, smart terminals, automotive cameras, high-resolution displays, and advanced packaging. North America and Europe are more focused on automotive electronics, industrial vision, optical sensing, and customized micro- and nanofabrication. Overall, this product is not a commodity photoresist, but a high-value specialized material supplied in small to medium volumes. Its market size is highly influenced by downstream device upgrades and customer qualification cycles, but under the long-term trends of multi-sensor integration,

autonomous driving, spatial sensing, and high-end packaging, the industry outlook remains positive.

This report studies the global Black Matrix Resist for Semiconductor production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Black Matrix Resist for Semiconductor total production and demand, 2021-2032, (MT)

Global Black Matrix Resist for Semiconductor total production value, 2021-2032, (USD Million)

Global Black Matrix Resist for Semiconductor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (MT), (based on production site)

Global Black Matrix Resist for Semiconductor consumption by region & country, CAGR, 2021-2032 & (MT)

U.S. VS China: Black Matrix Resist for Semiconductor domestic production, consumption, key domestic manufacturers and share

Global Black Matrix Resist for Semiconductor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (MT)

Global Black Matrix Resist for Semiconductor production by Coating Process, production, value, CAGR, 2021-2032, (USD Million) & (MT)

Global Black Matrix Resist for Semiconductor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (MT)

This report profiles key players in the global Black Matrix Resist 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 FUJIFILM Corporation, NIPPON STEEL Chemical & Material Co., Ltd., Daxin Materials Corporation, eChem Solutions Corp., Advanced Echem Materials Company Ltd., TOYO VISUAL SOLUTIONS CO., LTD., TopGiga Material Corp., ADEKA Corporation, Everlight Chemical Industrial Co., Allresist GmbH, 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 Black Matrix Resist for Semiconductor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MT) and average price (US\$/MT) by manufacturer, by Coating Process, 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 Black Matrix Resist for Semiconductor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Black Matrix Resist for Semiconductor Market, Segmentation by Coating Process:

Spin Coating Process

Slit Coating Process

Spin and Slit Combined Coating Process

Other

Global Black Matrix Resist for Semiconductor Market, Segmentation by Substrate Type:

Semiconductor Wafer

Glass Substrate

Touch Glass

Flexible Film

Optical Housing

Global Black Matrix Resist for Semiconductor Market, Segmentation by Photosensitive Tone:

Negative Photoresist

Positive Photoresist

Global Black Matrix Resist for Semiconductor Market, Segmentation by Application:

Image Sensor

Wafer-Level Lens

Chip Optical Black Area Shielding

Others

Companies Profiled:

FUJIFILM Corporation

NIPPON STEEL Chemical & Material Co., Ltd.

Daxin Materials Corporation

eChem Solutions Corp.

Advanced Echem Materials Company Ltd.

TOYO VISUAL SOLUTIONS CO., LTD.

TopGiga Material Corp.

ADEKA Corporation

Everlight Chemical Industrial Co.

Allresist GmbH

Key Questions Answered:

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

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