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

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Abstracts

The global Black Matrix Resist for LCD market size is expected to reach $ 127 million by 2032, rising at a market growth of 2.2% CAGR during the forecast period (2026-2032).

Black Matrix Resist for LCD is a black photosensitive material used in the manufacture of color filters for liquid crystal display panels. It is mainly applied to form stripe, grid, or mosaic black matrix patterns on glass substrates or within color filter structures, thereby suppressing color mixing between adjacent RGB pixels, blocking backlight leakage, controlling edge reflection, and improving panel contrast, aperture ratio, display uniformity, and black-state performance. This type of material usually adopts a negative-tone or specific positive-tone photolithography system and consists of black light-shielding pigments or non-carbon high-optical-density absorption systems, photosensitive resins, crosslinking monomers, photoinitiators, solvents, dispersants, adhesion promoters, and resistivity-control additives. It forms stable patterns through spin coating, slit coating, slit-spin coating, prebaking, exposure, development, post-baking, and curing processes. Key performance attributes include high optical density, high resolution, strong adhesion, coating uniformity, a broad development window, low reflection, low residue, heat resistance, chemical resistance, and high surface resistivity. Typical applications cover TFT-LCD televisions, monitors, notebook computers, tablets, smartphone panels, and color filter production lines, with major customers including panel manufacturers, color filter manufacturers, and display material integrators. Common delivery forms include liquid photoresist and customer-specific formulations, while the business model is centered on material sales, customer qualification, process adaptation, and long-term supply.

Black Matrix Resist for LCD occupies a critical position in the display materials system,

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combining both process functionality and optical functionality. Its value is not limited to forming black patterns; rather, it establishes a stable, fine, and reliable pixel-isolation structure within color filters. As LCD panels continue to move toward higher resolution, higher contrast, lower power consumption, and larger sizes, requirements for light-leakage control, pattern precision, surface flatness, and long-term reliability at RGB pixel boundaries continue to increase. As a result, black matrix resist has evolved from a general light-shielding material into an important functional material that affects display quality and manufacturing yield. The product must balance high optical density, low reflection, high resistivity, strong adhesion, clean development, heat resistance, and chemical resistance, while matching customer processes for coating, exposure, development, curing, and inspection. Because panel manufacturing is highly sensitive to particles, residues, line-width stability, and batch consistency, suppliers usually need long qualification cycles before entering mass production. Industry barriers are therefore reflected in the integrated capabilities of formulation platforms, dispersion technology, ultra-clean manufacturing, application engineering, and stable long-term supply.

The global competitive landscape is characterized by regional participation from Japan, China Taiwan, South Korea, and Chinese mainland. Japanese companies have accumulated deep capabilities in pigment dispersion, resin design, photolithographic pattern control, and customer qualification, and remain important technology sources for high-end display materials. China Taiwan suppliers, supported by local display panel and touch panel supply chains, have built strong supporting capabilities in LCD materials, resin black matrix materials, and black photoresists for touch applications. Korean companies entered the LCD photoresist material system relatively early and developed synergies with the domestic panel industry. Chinese mainland suppliers are benefiting from concentrated high-generation LCD production lines, display-material localization, and supply-chain security demand, and are moving from customer introduction and qualification toward stable supply. Future competition will not depend only on price and capacity, but also on whether suppliers can continuously optimize material windows around customer production lines and provide product portfolios suited to different substrate generations, exposure conditions, fine-line requirements, and reliability standards. As localization in the panel supply chain accelerates, companies with mass-production experience and customer collaboration capabilities are likely to gain share.

On the demand side, the fundamental demand for Black Matrix Resist for LCD is closely tied to LCD panel shipment area, color filter production-line utilization, and product-structure upgrades. Televisions, monitors, notebook computers, tablets, smartphones, and automotive displays remain the main application base. Large-size TVs and

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automotive displays place greater emphasis on shielding stability and environmental reliability, while high-PPI mobile displays and high-resolution IT panels place greater emphasis on fine line width, pattern edge quality, and low residue. Although the overall LCD panel market has become mature, concentrated high-generation production lines, narrow-bezel design, low-reflection displays, high-contrast displays, and domestic supply-chain substitution continue to create structural opportunities. At the same time, the technology of black photosensitive materials is extending into touch-panel black borders, image-sensor shielding, wafer-level optical black areas, and other micro-optical light-shielding structures, broadening the application space for suppliers. Overall, the industry features a stable installed-market base, continuous product upgrades, high customer-qualification barriers, and clear localization opportunities, with future growth more likely to come from high-end product penetration and regional supply-chain restructuring.

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

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

Highlights and key features of the study

Global Black Matrix Resist for LCD total production and demand, 2021-2032, (MT)
Global Black Matrix Resist for LCD total production value, 2021-2032, (USD Million)
Global Black Matrix Resist for LCD production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (MT), (based on production site)
Global Black Matrix Resist for LCD consumption by region & country, CAGR, 2021-2032 & (MT)
U.S. VS China: Black Matrix Resist for LCD domestic production, consumption, key domestic manufacturers and share
Global Black Matrix Resist for LCD production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (MT)
Global Black Matrix Resist for LCD production by Photolithographic Reaction, production, value, CAGR, 2021-2032, (USD Million) & (MT)
Global Black Matrix Resist for LCD production by Application, production, value, CAGR, 2021-2032, (USD Million) & (MT)

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This report profiles key players in the global Black Matrix Resist for LCD 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 NIPPON STEEL Chemical & Material Co., Ltd., Daxin Materials Corp., Advanced Echem Materials Company Ltd., Everlight Chemical Industrial Corp., Tokyo Ohka Kogyo Co., Ltd., FUJIFILM Corporation, TOYO VISUAL SOLUTIONS CO., LTD., LG Chem, Ltd., Fuyang Sineva Advanced Materials Technology Co., Ltd., Jiangsu Boyan Electronic Technology 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 Black Matrix Resist for LCD 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 Photolithographic Reaction, 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 LCD Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

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Rest of World

Global Black Matrix Resist for LCD Market, Segmentation by Photolithographic Reaction:

Negative

Positive

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

Acrylic Resin

Phenolic Resin

Polyimide-Modified Resin

Others

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

Color Filter Light Shielding

Touch Panel Light Shielding

Thin-Film Transistor Light Shielding Protection

Pixel Boundary Isolation

Others

Companies Profiled:

NIPPON STEEL Chemical & Material Co., Ltd.

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Daxin Materials Corp.

Advanced Echem Materials Company Ltd.

Everlight Chemical Industrial Corp.

Tokyo Ohka Kogyo Co., Ltd.

FUJIFILM Corporation

TOYO VISUAL SOLUTIONS CO., LTD.

LG Chem, Ltd.

Fuyang Sineva Advanced Materials Technology Co., Ltd.

Jiangsu Boyan Electronic Technology Co., Ltd.

Mitsubishi Chemical Group Corporation

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

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