

Global Low-Dk Solder Mask Ink Market Growth 2026-2032

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Abstracts

The global Low-Dk Solder Mask Ink market size is predicted to grow from US\$ 166 million in 2025 to US\$ 311 million in 2032; it is expected to grow at a CAGR of 9.3% from 2026 to 2032.

Low-dielectric solder mask ink is a functional electronic chemical used for outer-layer protection and solder mask patterning on high-speed and high-frequency PCBs. It is usually supplied as liquid photoimageable, direct-imaging, thermally curable, or inkjet formulations. Its core indicators are low dielectric constant (Dk) and low dissipation factor (Df), while also balancing resolution, adhesion, solder heat resistance, chemical resistance, insulation reliability, and halogen-free environmental requirements. It is mainly used in 5G communications, servers, automotive radar/ADAS, RF/microwave boards, IC substrates, and HDI boards, helping reduce signal attenuation and impedance shift in outer-layer traces. The product's overall gross margin is approximately 35%.

Demand for low-dielectric solder mask ink is driven by the continued outward migration of high-speed signal links. AI servers, switches, 5G base stations, millimeter-wave radar, and high-end HDI boards are more sensitive to outer-layer trace loss. The solder mask layer is no longer only a protective material, but also a key auxiliary material affecting impedance, insertion loss, and yield.

On the supply side, the market is still dominated by Japanese, European/U.S., and Taiwanese manufacturers. Taiyo Ink, Huntsman, Tamura, Eternal Materials, and others have customer certification advantages in high-reliability and high-frequency products, while Chinese companies are accelerating substitution through communication boards, automotive boards, and LDI solder mask systems. Formulation barriers in this category

are concentrated in low-polarity resins, PPE or active ester modification, low-loss filler dispersion, development window, and long-term insulation reliability. Customer validation cycles are long, so high-end products usually have higher prices and margins than general green solder mask ink.

Future growth is mainly constrained by two factors: some RF designs use solder mask opening, solder mask removal, or special surface treatment to avoid solder mask layer loss; meanwhile, ordinary LPI solder mask ink still has cost advantages in some mid- and low-frequency applications. However, as high-speed PCB line width and spacing continue to shrink, AI server link rates increase, and automotive electronics upgrade toward high-frequency radar and domain controllers, low-Dk/low-Df solder mask ink will gradually shift from small-batch high-end validation to more stable mass-production procurement.

LP Information, Inc. (LPI) ' newest research report, the "Low-Dk Solder Mask Ink Industry Forecast" looks at past sales and reviews total world Low-Dk Solder Mask Ink sales in 2025, providing a comprehensive analysis by region and market sector of projected Low-Dk Solder Mask Ink sales for 2026 through 2032. With Low-Dk Solder Mask Ink sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Low-Dk Solder Mask Ink industry.

This Insight Report provides a comprehensive analysis of the global Low-Dk Solder Mask Ink landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Low-Dk Solder Mask Ink portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Low-Dk Solder Mask Ink market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Low-Dk Solder Mask Ink and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Low-Dk Solder Mask Ink.

This report presents a comprehensive overview, market shares, and growth opportunities of Low-Dk Solder Mask Ink market by product type, application, key

manufacturers and key regions and countries.

Segmentation by Type:

Balanced Low-Dk Grade

Low-Dk and Low-Df Grade

Ultra-Low-Loss Grade

High-Resolution Low-Dk Grade

High-Reliability Low-Dk Grade

Custom Electrical Grade

Segmentation by Processing Route:

Screen-Printed LPI Type

Spray-Coated LPI Type

Curtain-Coated LPI Type

Direct Imaging Type

Inkjet Type

Thermal Curable Type

Segmentation by Target Board Type:

High-Speed Communication PCB Grade

RF and Microwave PCB Grade

Automotive High-Reliability PCB Grade

IC Substrate and Packaging Grade

Flexible and Rigid-Flex PCB Grade

Server and AI Accelerator PCB Grade

Segmentation by Resin System:

Epoxy Acrylate System

PPE-Modified System

Polyimide-Modified System

Fluoropolymer-Filled System

Active Ester Low-Polarity System

Silica Low-Loss Filler System

Segmentation by Application:

High-Speed Computing PCBs

Communication and RF PCBs

Automotive Electronics PCBs

Advanced Packaging Substrates

Other High-Frequency Electronics

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Taiyo Ink

Huntsman

Tamura

Shenzhen Rongda Photosensitive

Jiangsu Guangxin Photosensitive New Material

Eternal Materials

Electra Polymers

Peters

GOO Chemical

Resonac

Jiangmen ABQ Electronic Materials

Inkbank

Key Questions Addressed in this Report

What is the 10-year outlook for the global Low-Dk Solder Mask Ink market?
What factors are driving Low-Dk Solder Mask Ink market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do Low-Dk Solder Mask Ink market opportunities vary by end market size?
How does Low-Dk Solder Mask Ink break out by Type, by Application?

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