

Global Low-Dk Solder Mask Ink Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G84C026A6CD3EN.html>

Date: August 2026

Pages: 116

Price: US\$ 3,480.00 (Single User License)

ID: G84C026A6CD3EN

Abstracts

According to our (Global Info Research) latest study, the global Low-Dk Solder Mask Ink market size was valued at US\$ 175 million in 2025 and is forecast to a readjusted size of US\$ 317 million by 2032 with a CAGR of 8.8% during review period.

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.

This report is a detailed and comprehensive analysis for global Low-Dk Solder Mask Ink market. Both quantitative and qualitative analyses are presented by 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 Low-Dk Solder Mask Ink market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Low-Dk Solder Mask Ink market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Low-Dk Solder Mask Ink market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Low-Dk Solder Mask Ink market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/kg), 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 Low-Dk Solder Mask Ink

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 Low-Dk Solder Mask Ink 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 Taiyo Ink, Huntsman, Tamura, Shenzhen Rongda Photosensitive, Jiangsu Guangxin Photosensitive New Material, Eternal Materials, Electra Polymers, Peters, GOO Chemical, Resonac, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Low-Dk Solder Mask Ink 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

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

Market segment by Processing Route

Screen-Printed LPI Type

Spray-Coated LPI Type

Curtain-Coated LPI Type

Direct Imaging Type

Inkjet Type

Thermal Curable Type

Market segment 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

Market segment 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

Market segment by Application

High-Speed Computing PCBs

Communication and RF PCBs

Automotive Electronics PCBs

Advanced Packaging Substrates

Other High-Frequency Electronics

Major players covered

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

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 Low-Dk Solder Mask Ink product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Low-Dk Solder Mask Ink, with price, sales quantity, revenue, and global market share of Low-Dk Solder Mask Ink from 2021 to 2026.

Chapter 3, the Low-Dk Solder Mask Ink competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Low-Dk Solder Mask Ink 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 Low-Dk Solder Mask Ink market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Low-Dk Solder Mask Ink.

Chapter 14 and 15, to describe Low-Dk Solder Mask Ink sales channel, distributors, customers, research findings and conclusion.

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