

# Global Liquid Solder Mask Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Liquid Solder Mask market size is expected to reach \$ 872 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

Liquid solder mask is a photoimageable polymer coating applied to PCB surfaces around copper traces and pads. It is deposited by screen printing, spray or curtain coating, then tack-dried, exposed and developed to create openings and fine solder dams, followed by final curing. The cured film provides electrical insulation, oxidation/moisture/chemical protection, and solder-heat resistance, reducing solder bridging during assembly.

Upstream inputs include base resins and reactive diluents/monomers (often epoxy-acrylate type systems), photoinitiators, pigments/fillers, solvents and additives, plus curing/crosslinking components. Downstream PCB fabs apply and image/cure the mask via screen printing/spray/curtain coating and DI/LDI exposure workflows. In 2025, global liquid solder mask production reached approximately 100 k tons, with an average global market price is \$5,300 per ton.

Liquid solder mask is a critical functional coating in the electronic materials and PCB manufacturing chain, directly impacting circuit board soldering yield, insulation reliability, and long-term environmental performance. It is a crucial foundational material for the continuous upgrading of high-density interconnect (HDI) in consumer electronics, automotive electronics, industrial control, and communication equipment.

In recent years, as end products evolve towards thinner, lighter designs, smaller package sizes, and higher reliability, the liquid solder mask market has maintained steady growth. Product competition has shifted from simply usable to a comprehensive

competition based on high resolution, strong process window, and high consistency.

In terms of technological evolution, liquid solder mask has rapidly iterated from traditional non-photosensitive liquid systems to a mainstream route dominated by photosensitive liquid solder mask. This is deeply coupled with advanced processes such as LDI (Laser Direct Imaging) to meet the requirements of finer solder dams, higher alignment accuracy, and more stringent lead-free reflow soldering thermal shock requirements. Simultaneously, for specific applications, high-reflectivity white solder masks (LED/lighting), low ionic contamination and low water absorption formulations (automotive/industrial), and systems with stronger resistance to surface treatments and chemical agents have been developed.

Regionally, the Asia-Pacific region has long led in production and consumption, driven primarily by the PCB production clusters and electronic manufacturing ecosystems in mainland China, Taiwan, South Korea, and Japan. While North America and Europe have relatively lower production shares, the demand for high-end solder mask systems (with stronger thermal cycling resistance, humidity and heat resistance, chemical resistance, and stricter quality systems) is more prominent in the automotive, aerospace, medical, and high-reliability industrial electronics sectors.

Market opportunities mainly stem from three main areas: firstly, the popularization of HDI and miniaturized packaging drives the need for higher resolution and more stable imaging/curing windows; secondly, the electrification and intelligence of automobiles bring about reliability requirements for longer lifespan, higher temperatures, and more complex operating conditions; and thirdly, 5G/high-speed computing and high-frequency applications demand lower defect rates, lower contamination, and more controllable surface characteristics, indirectly boosting the value of solder mask material formulation upgrades and certifications.

This report studies the global Liquid Solder Mask production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Liquid Solder Mask 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 Liquid Solder Mask that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Liquid Solder Mask total production and demand, 2021-2032, (Tons)

Global Liquid Solder Mask total production value, 2021-2032, (USD Million)

Global Liquid Solder Mask production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Liquid Solder Mask consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Liquid Solder Mask domestic production, consumption, key domestic manufacturers and share

Global Liquid Solder Mask production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Liquid Solder Mask production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Liquid Solder Mask production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Liquid Solder Mask 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 Taiyo Ink Mfg, Tamura, Electra Polymers, Greentop Technology, Alfa Chemistry, Chung Yu Industry, Unires Chenicl, Guangxin Photosensitive New Material, RongDa Photosensitnive, Guangdong Coants Electronic Materials, 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 Liquid Solder Mask market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, 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 Liquid Solder Mask Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Liquid Solder Mask Market, Segmentation by Type:

Green

White

Black

Red

Other

#### Global Liquid Solder Mask Market, Segmentation by Substrate:

Rigid Printed Circuit Boards

Flexible Printed Circuit Boards

Others

## Global Liquid Solder Mask Market, Segmentation by Coating Method:

Screen Printing

Roller Coating

## Global Liquid Solder Mask Market, Segmentation by Application:

Consumer Electronics

Communications

Automotive

Industrial

Other

## Companies Profiled:

Taiyo Ink Mfg

Tamura

Electra Polymers

Greentop Technology

Alfa Chemistry

Chung Yu Industry

Unires Chenicl

Guangxin Photosensitive New Material

RongDa Photosensitinve

Guangdong Coants Electronic Materials

Advance Materials Corporation

Asahi Chemical Research Laboratory

New East New Materials

Guangdong SQUV Curing Materials

**Key Questions Answered:**

1. How big is the global Liquid Solder Mask market?
2. What is the demand of the global Liquid Solder Mask market?
3. What is the year over year growth of the global Liquid Solder Mask market?
4. What is the production and production value of the global Liquid Solder Mask market?
5. Who are the key producers in the global Liquid Solder Mask market?
6. What are the growth factors driving the market demand?

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