

Global Semiconductor Passivation Glass Market Growth 2025-2031

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Abstracts

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The global Semiconductor Passivation Glass market size is predicted to grow from US\$ 94.2 million in 2025 to US\$ 143 million in 2031; it is expected to grow at a CAGR of 7.2% from 2025 to 2031.

Passivation involves depositing protective materials on the surface of metals or metal alloys to enhance their resistance to environmental factors. The layered material can be organic or inorganic and should have excellent electrical insulation, strong substrate adhesion, and be able to block the intrusion of chemicals. For semiconductors, passivation is critical to prevent performance degradation and ensure long-term reliability.

Semiconductor Passivation Glass is a material used in semiconductor devices, mainly used to protect and enhance the performance of the device. It is commonly used in wafer, optoelectronic devices and other semiconductor components to prevent environmental factors from affecting the device.

Glass is a strong choice for passivation materials due to its unique combination of properties. For example, glass can be formulated in a variety of ways, and common types include Pb-Si-Al, Zn-B-Si, and Pb-Zn-B, all of which are free of alkali metals and alkaline earth metals, with a dense glass structure and good network connectivity. This enables manufacturers to produce glass that can meet low-voltage and high-voltage electrical specifications, match the thermal expansion coefficient of semiconductor materials, and meet low-temperature processing requirements. Among them, Pb-Si-Al is widely used as a passivation glass, accounting for 40.68% in 2023.

During the diode processing, molten glass is required to passivate the wafer to protect the P-N junction and extend the service life. From the application point of view, the proportion of diode use is much higher, accounting for more than 50% in 2023.

There are not many players in the global semiconductor passivation glass market, including Schott, Nippon Electric Glass, Vibrantz Technologies, Beijing Xunizi Electronic Glass, and Heraeus, etc. The market concentration is high, and the top three accounted for 89% in 2023. In the fast-paced field of semiconductor manufacturing, precision and reliability are crucial. With the development of 5G technology, the demand for power semiconductors in the communications industry has surged. Among many feasible materials, glass has good insulation properties, which can increase the breakdown voltage of semiconductor devices, reduce leakage current, and provide good protection for devices. With the increasing popularity of smart devices and advances in the automotive and aerospace fields, the semiconductor passivation glass market is expected to continue to grow in the coming years.

LP Information, Inc. (LPI)'s newest research report, the "Semiconductor Passivation Glass Industry Forecast" looks at past sales and reviews total world Semiconductor Passivation Glass sales in 2024, providing a comprehensive analysis by region and market sector of projected Semiconductor Passivation Glass sales for 2025 through 2031. With Semiconductor Passivation Glass sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Semiconductor Passivation Glass industry.

This Insight Report provides a comprehensive analysis of the global Semiconductor Passivation Glass 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 Semiconductor Passivation Glass portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Semiconductor Passivation Glass market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Semiconductor Passivation Glass 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 Semiconductor Passivation

Glass.

This report presents a comprehensive overview, market shares, and growth opportunities of Semiconductor Passivation Glass market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Pb-Si-Al Based

Zn-B-Si Based

Pb-Zn-B Based

Others

Segmentation by Application:

Wafer Passivation

Diode Encapsulation

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.

Schott

Nippon Electric Glass

Vibrantz Technologies

Beijing Xunizi Electronic Glass

Heraeus

Poppula

Key Questions Addressed in this Report

What is the 10-year outlook for the global Semiconductor Passivation Glass market?

What factors are driving Semiconductor Passivation Glass market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Semiconductor Passivation Glass market opportunities vary by end market size?

How does Semiconductor Passivation Glass break out by Type, by Application?

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