

Global Semiconductor Passivation Glass Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/SE65E8C63394EN.html>

Date: July 2025

Pages: 104

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

ID: SE65E8C63394EN

Abstracts

According to our (Global Info Research) latest study, the global Semiconductor Passivation Glass market size was valued at US\$ 99 million in 2024 and is forecast to a readjusted size of USD 156 million by 2031 with a CAGR of 6.7% during review period.

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.

This report is a detailed and comprehensive analysis for global Semiconductor Passivation Glass 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 Semiconductor Passivation Glass market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2020-2031

Global Semiconductor Passivation Glass market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2020-2031

Global Semiconductor Passivation Glass market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2020-2031

Global Semiconductor Passivation Glass market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Kg), 2020-2025

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 Semiconductor Passivation Glass
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global Semiconductor Passivation Glass 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 Schott, Nippon Electric Glass, Vibrantz Technologies, Beijing Xunizi Electronic Glass, Heraeus, Poppula, etc.

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

Market Segmentation

Semiconductor Passivation Glass market is split by Type and by Application. For the period 2020-2031, 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

Pb-Si-Al Based

Zn-B-Si Based

Pb-Zn-B Based

Others

Market segment by Application

Wafer Passivation

Diode Encapsulation

Major players covered

Schott

Nippon Electric Glass

Vibrantz Technologies

Beijing Xunizi Electronic Glass

Heraeus

Poppula

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 Semiconductor Passivation Glass product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Semiconductor Passivation Glass, with price, sales quantity, revenue, and global market share of Semiconductor Passivation Glass from 2020 to 2025.

Chapter 3, the Semiconductor Passivation Glass competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Semiconductor Passivation Glass breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Semiconductor Passivation Glass market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Semiconductor Passivation Glass.

Chapter 14 and 15, to describe Semiconductor Passivation Glass sales channel, distributors, customers, research findings and conclusion.

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