

# Global Borophosphosilicate Glass Market Growth 2025-2031

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## Abstracts

The global Borophosphosilicate Glass market size is predicted to grow from US\$ 681 million in 2025 to US\$ 1049 million in 2031; it is expected to grow at a CAGR of 7.5% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Borophosphosilicate Glass (BPSG) is a type of doped silicon dioxide ( $\text{SiO}_2$ ) glass used primarily in the semiconductor industry as an insulating and planarization material. It is formed by incorporating both boron (B) and phosphorus (P) into a silicate ( $\text{SiO}_2$ ) glass matrix, usually through chemical vapor deposition (CVD) methods such as Plasma-Enhanced CVD or Low-Pressure CVD. BPSG offers enhanced flow properties at lower reflow temperatures compared to undoped or singly doped silicate glasses (like PSG or BSG), making it especially useful for smoothing topography in integrated circuit (IC) fabrication. The presence of boron and phosphorus lowers the glass transition temperature, allowing better gap-fill and step coverage during reflow processes. However, care must be taken to control outgassing and dopant diffusion, which can affect device reliability. Common applications of BPSG include interlayer dielectrics in CMOS and DRAM processes, shallow trench isolation (STI), and as a pre-metal dielectric (PMD) layer.

Borophosphosilicate Glass (BPSG) is a doped silicon dioxide material typically composed of  $\text{SiO}_2$  with 1–8% boron (as  $\text{B}_2\text{O}_3$ ) and 1–8% phosphorus (as  $\text{P}_2\text{O}_5$ ), tailored to reduce the reflow temperature and improve flow characteristics for planarization in semiconductor applications. It is commonly deposited via PECVD,

SACVD, or spin-on methods at temperatures between 300–500 °C, with reflow typically occurring at 700–950 °C. Key properties include a dielectric constant of ~4.1–4.5, density around 2.2–2.3 g/cm<sup>3</sup>, refractive index of ~1.45, and film thickness ranging from 100 nm to several microns. BPSG films offer low leakage current, moderate etch rates in HF, and good conformality, making them essential for interlayer dielectric, shallow trench isolation, and pre-metal dielectric layers in CMOS and DRAM fabrication.

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

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

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

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

Segmentation by Type:

Low BPSG (6%)

### Segmentation by Application:

Microprocessors

Memory Chips

Integrated Circuits

CMOS Sensors

MEMS Sensors

Others

### 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.

Desert Silicon

Alfa Chemistry

Merck Group

NAGASE Group

Siltronic

Sumco Corporation

Shin-Etsu Chemical

Versum Materials

#### Key Questions Addressed in this Report

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

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

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

How do Borophosphosilicate Glass market opportunities vary by end market size?

How does Borophosphosilicate Glass break out by Type, by Application?

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