

Global PVB Laminated Safety Glass Market Growth 2026-2032

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Abstracts

The global PVB Laminated Safety Glass market size is predicted to grow from US\$ 9892 million in 2025 to US\$ 14043 million in 2032; it is expected to grow at a CAGR of 5.2% from 2026 to 2032.

PVB Laminated Safety Glass refers to laminated glazing manufactured by bonding two or more glass plies with polyvinyl butyral (PVB) interlayers and designed to satisfy defined safety-performance requirements, particularly fragment retention, impact resistance and reduced penetration risk after breakage. Depending on the application, the glass substrates may be annealed, heat-strengthened or fully tempered and may incorporate clear, low-iron, coated or tinted glass. Major upstream materials include float glass, PVB interlayers, PVB resin, plasticizers, silica sand and soda ash. Downstream applications include automotive windshields and laminated sidelites, architectural facades, doors and windows, balustrades, canopies, skylights and overhead glazing, as well as rail transit, marine, hurricane-resistant, anti-intrusion and other security glazing. Industry standards distinguish laminated glass used for general functions from laminated safety glass that meets specified safety performance requirements.

Key Findings

Global PVB Laminated Safety Glass production was approximately 260 million square meters in 2025

The global average ex-factory price was approximately US\$38 per square meter in 2025

Automotive and building applications constitute the two largest downstream markets

PVB remains the dominant interlayer material in laminated safety glazing due to its combination of adhesion, optical clarity, impact energy absorption and mature processing technology

Asia-Pacific is the largest production and consumption region, supported by China's automotive and architectural glass manufacturing base

Market Trends

The global PVB Laminated Safety Glass market is evolving from basic fragment-retention glazing toward higher-performance safety and security systems. In automotive applications, laminated glazing is extending from conventional windshields toward sidelites, acoustic glazing and panoramic roof systems. In architectural applications, increasing use of glass facades, balustrades, canopies, skylights and overhead glazing is raising requirements for post-breakage retention and impact resistance. At the same time, manufacturers are combining safety performance with acoustic insulation, Low-E coatings, solar control, low-iron glass and decorative functions, increasing the value per square meter of laminated safety glass.

Market Dynamics

Drivers

Stricter automotive and building safety requirements remain the primary structural drivers of the market. PVB interlayers retain glass fragments after breakage and reduce the probability of dangerous fallout or penetration, making laminated safety glass particularly important in vehicle windshields, overhead glazing, balustrades, entrance systems and high-traffic public buildings. Expansion of automotive production, high-rise construction, transportation infrastructure and large-area architectural glazing continues to support global demand. Laminated safety glass remains the largest application of PVB materials, reflecting the importance of safety glazing in automotive and construction markets.

Restraints

PVB Laminated Safety Glass generally carries higher manufacturing costs than

monolithic or basic tempered glass because production requires interlayer storage control, clean assembly, pre-lamination, de-airing and autoclave processing. Higher safety grades may also require thicker or multiple PVB layers, additional heat treatment and more stringent impact testing. Standard architectural safety glass faces significant price competition, particularly in regions with large float glass and downstream processing capacity.

Opportunities

Growth opportunities are concentrated in laminated automotive sidelites, panoramic roofs, acoustic windshields, hurricane-resistant glazing, anti-intrusion glass, high-rise facades and public infrastructure. Increasing integration of safety performance with acoustic, solar-control, UV-protection and Low-E functions creates opportunities for higher-value products. Renovation of existing buildings to meet updated safety and resilience requirements also provides incremental demand, particularly in developed markets and regions exposed to severe weather.

Challenges

Key challenges include maintaining consistent adhesion, optical quality and impact performance across increasingly large and complex glazing structures. Glass processors must carefully control PVB moisture, glass cleanliness, temperature, pressure and edge quality. Compliance requirements also vary across automotive homologation systems and regional building standards, increasing testing and certification costs. Competition from SGP and other structural interlayers is stronger in applications requiring exceptional post-breakage stiffness or structural performance.

Industry Chain Analysis

The upstream sector includes float glass, low-iron and coated glass, PVB resin, PVB interlayers, plasticizers and glassmaking raw materials. Midstream manufacturers perform cutting, edging, drilling, washing, optional heat strengthening or tempering, PVB lay-up, pre-lamination, de-airing and autoclave processing, followed by quality inspection and safety testing. Downstream customers include automotive OEMs and glazing Tier 1 suppliers, architectural glass processors, facade contractors, building developers, rail vehicle manufacturers, shipbuilders and security glazing integrators. Higher value is concentrated in high-performance interlayers, automotive certification, heat-treated laminated structures, complex processing and safety-system integration.

Segment Insights

By glass treatment, the market can be divided into annealed PVB laminated safety glass, heat-strengthened PVB laminated safety glass and fully tempered PVB laminated safety glass. By PVB thickness, major configurations include 0.38 mm, 0.76 mm, 1.14–1.52 mm and 2.28 mm interlayers. By safety level, products can be classified into basic safety glazing, impact-resistant glazing and high-security glazing. Standard automotive and architectural safety structures account for the majority of market volume, while thicker multi-layer configurations achieve higher average selling prices in anti-intrusion, hurricane-resistant and specialized security applications.

Downstream Market Opportunities

Automotive and construction are the two core downstream markets. Automotive demand is anchored by windshields, with laminated sidelites and panoramic roofs becoming important incremental applications. Building demand is concentrated in facades, entrance doors, windows, balustrades, canopies, skylights and overhead glazing where fragment retention after breakage is essential. Rail transit, marine transportation and high-security facilities provide smaller but higher-value opportunities for customized impact-resistant and multi-layer safety glazing.

Regional Insights

Asia-Pacific represents the largest production and consumption region, with China playing a central role in automotive glass and architectural safety glass manufacturing. Europe maintains a mature market supported by strict safety standards and strong adoption of high-performance architectural glazing. North America benefits from automotive demand, commercial construction, hurricane-resistant glazing and security applications. Japan remains an important market for high-quality automotive and architectural safety glazing, emphasizing optical quality, process consistency and functional integration.

Report Scope

LP Information, Inc. (LPI)'s newest research report, the "PVB Laminated Safety Glass Industry Forecast" looks at past sales and reviews total world PVB Laminated Safety Glass sales in 2025, providing a comprehensive analysis by region and market sector of projected PVB Laminated Safety Glass sales for 2026 through 2032. With PVB Laminated Safety Glass sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world PVB Laminated Safety Glass industry.

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

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

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

Market Segmentation

Segmentation by Type:

Annealed PVB Laminated Glass

Heat-Strengthened PVB Laminated Glass

Fully Tempered PVB Laminated Glass

Others

Segmentation by Interlayer Thickness:

≥0.38 mm PVB Laminated Glass

0.76 mm PVB Laminated Glass

1.14–1.52 mm PVB Laminated Glass

?2.28 mm PVB Laminated Glass

Segmentation by Application:

Building & Construction

Automotive

Industrial

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.

Saint-Gobain

Guardian Glass

AGC Inc.

Nippon Sheet Glass

Central Glass

PRESS GLASS S.A.

sedak GmbH & Co. KG

Viracon, Inc.

Trulite Glass & Aluminum Solutions

Fuyao Glass

Xinyi Glass

CSG Holding

Key Questions Addressed in this Report

What is the 10-year outlook for the global PVB Laminated Safety Glass market?

What factors are driving PVB Laminated Safety Glass market growth, globally and by region?

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

How do PVB Laminated Safety Glass market opportunities vary by end market size?

How does PVB Laminated Safety Glass break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global PVB Laminated Safety Glass Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for PVB Laminated Safety Glass by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for PVB Laminated Safety Glass by Country/Region, 2021, 2025 & 2032

2.2 PVB Laminated Safety Glass Segment by Type

- 2.2.1 Annealed PVB Laminated Glass
- 2.2.2 Heat-Strengthened PVB Laminated Glass
- 2.2.3 Fully Tempered PVB Laminated Glass
- 2.2.4 Others
- 2.2.5 PVB Laminated Safety Glass Sales by Type
 - 2.2.5.1 Global PVB Laminated Safety Glass Sales Market Share by Type (2021-2026)
 - 2.2.5.2 Global PVB Laminated Safety Glass Revenue and Market Share by Type (2021-2026)
 - 2.2.5.3 Global PVB Laminated Safety Glass Sale Price by Type (2021-2026)

2.3 PVB Laminated Safety Glass Segment by Interlayer Thickness

- 2.3.1 0.38 mm PVB Laminated Glass
- 2.3.2 0.76 mm PVB Laminated Glass
- 2.3.3 1.14–1.52 mm PVB Laminated Glass
- 2.3.4 2.28 mm PVB Laminated Glass
- 2.3.5 PVB Laminated Safety Glass Sales by Interlayer Thickness
 - 2.3.5.1 Global PVB Laminated Safety Glass Sales Market Share by Interlayer

Thickness (2021-2026)

2.3.5.2 Global PVB Laminated Safety Glass Revenue and Market Share by Interlayer

Thickness (2021-2026)

2.3.5.3 Global PVB Laminated Safety Glass Sale Price by Interlayer Thickness
(2021-2026)

2.4 PVB Laminated Safety Glass Segment by Application

2.4.1 Building & Construction

2.4.2 Automotive

2.4.3 Industrial

2.4.4 Others

2.4.5 PVB Laminated Safety Glass Sales by Application

2.4.5.1 Global PVB Laminated Safety Glass Sale Market Share by Application
(2021-2026)

2.4.5.2 Global PVB Laminated Safety Glass Revenue and Market Share by
Application (2021-2026)

2.4.5.3 Global PVB Laminated Safety Glass Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global PVB Laminated Safety Glass Breakdown Data by Company

3.1.1 Global PVB Laminated Safety Glass Annual Sales by Company (2021-2026)

3.1.2 Global PVB Laminated Safety Glass Sales Market Share by Company
(2021-2026)

3.2 Global PVB Laminated Safety Glass Annual Revenue by Company (2021-2026)

3.2.1 Global PVB Laminated Safety Glass Revenue by Company (2021-2026)

3.2.2 Global PVB Laminated Safety Glass Revenue Market Share by Company
(2021-2026)

3.3 Global PVB Laminated Safety Glass Sale Price by Company

3.4 Key Manufacturers PVB Laminated Safety Glass Producing Area Distribution, Sales
Area, Product Type

3.4.1 Key Manufacturers PVB Laminated Safety Glass Product Location Distribution

3.4.2 Players PVB Laminated Safety Glass Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR PVB LAMINATED SAFETY GLASS BY

GEOGRAPHIC REGION

4.1 World Historic PVB Laminated Safety Glass Market Size by Geographic Region (2021-2026)

4.1.1 Global PVB Laminated Safety Glass Annual Sales by Geographic Region (2021-2026)

4.1.2 Global PVB Laminated Safety Glass Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic PVB Laminated Safety Glass Market Size by Country/Region (2021-2026)

4.2.1 Global PVB Laminated Safety Glass Annual Sales by Country/Region (2021-2026)

4.2.2 Global PVB Laminated Safety Glass Annual Revenue by Country/Region (2021-2026)

4.3 Americas PVB Laminated Safety Glass Sales Growth

4.4 APAC PVB Laminated Safety Glass Sales Growth

4.5 Europe PVB Laminated Safety Glass Sales Growth

4.6 Middle East & Africa PVB Laminated Safety Glass Sales Growth

5 AMERICAS

5.1 Americas PVB Laminated Safety Glass Sales by Country

5.1.1 Americas PVB Laminated Safety Glass Sales by Country (2021-2026)

5.1.2 Americas PVB Laminated Safety Glass Revenue by Country (2021-2026)

5.2 Americas PVB Laminated Safety Glass Sales by Type (2021-2026)

5.3 Americas PVB Laminated Safety Glass Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC PVB Laminated Safety Glass Sales by Region

6.1.1 APAC PVB Laminated Safety Glass Sales by Region (2021-2026)

6.1.2 APAC PVB Laminated Safety Glass Revenue by Region (2021-2026)

6.2 APAC PVB Laminated Safety Glass Sales by Type (2021-2026)

6.3 APAC PVB Laminated Safety Glass Sales by Application (2021-2026)

6.4 China

- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe PVB Laminated Safety Glass by Country
 - 7.1.1 Europe PVB Laminated Safety Glass Sales by Country (2021-2026)
 - 7.1.2 Europe PVB Laminated Safety Glass Revenue by Country (2021-2026)
- 7.2 Europe PVB Laminated Safety Glass Sales by Type (2021-2026)
- 7.3 Europe PVB Laminated Safety Glass Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa PVB Laminated Safety Glass by Country
 - 8.1.1 Middle East & Africa PVB Laminated Safety Glass Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa PVB Laminated Safety Glass Revenue by Country (2021-2026)
- 8.2 Middle East & Africa PVB Laminated Safety Glass Sales by Type (2021-2026)
- 8.3 Middle East & Africa PVB Laminated Safety Glass Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of PVB Laminated Safety Glass
- 10.3 Manufacturing Process Analysis of PVB Laminated Safety Glass
- 10.4 Industry Chain Structure of PVB Laminated Safety Glass

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 PVB Laminated Safety Glass Distributors
- 11.3 PVB Laminated Safety Glass Customer

12 WORLD FORECAST REVIEW FOR PVB LAMINATED SAFETY GLASS BY GEOGRAPHIC REGION

- 12.1 Global PVB Laminated Safety Glass Market Size Forecast by Region
 - 12.1.1 Global PVB Laminated Safety Glass Forecast by Region (2027-2032)
 - 12.1.2 Global PVB Laminated Safety Glass Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global PVB Laminated Safety Glass Forecast by Type (2027-2032)
- 12.7 Global PVB Laminated Safety Glass Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Saint-Gobain
 - 13.1.1 Saint-Gobain Company Information
 - 13.1.2 Saint-Gobain PVB Laminated Safety Glass Product Portfolios and Specifications
 - 13.1.3 Saint-Gobain PVB Laminated Safety Glass Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.1.4 Saint-Gobain Main Business Overview

- 13.1.5 Saint-Gobain Latest Developments
- 13.2 Guardian Glass
 - 13.2.1 Guardian Glass Company Information
 - 13.2.2 Guardian Glass PVB Laminated Safety Glass Product Portfolios and Specifications
 - 13.2.3 Guardian Glass PVB Laminated Safety Glass Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.2.4 Guardian Glass Main Business Overview
 - 13.2.5 Guardian Glass Latest Developments
- 13.3 AGC Inc.
 - 13.3.1 AGC Inc. Company Information
 - 13.3.2 AGC Inc. PVB Laminated Safety Glass Product Portfolios and Specifications
 - 13.3.3 AGC Inc. PVB Laminated Safety Glass Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.3.4 AGC Inc. Main Business Overview
 - 13.3.5 AGC Inc. Latest Developments
- 13.4 Nippon Sheet Glass
 - 13.4.1 Nippon Sheet Glass Company Information
 - 13.4.2 Nippon Sheet Glass PVB Laminated Safety Glass Product Portfolios and Specifications
 - 13.4.3 Nippon Sheet Glass PVB Laminated Safety Glass Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 Nippon Sheet Glass Main Business Overview
 - 13.4.5 Nippon Sheet Glass Latest Developments
- 13.5 Central Glass
 - 13.5.1 Central Glass Company Information
 - 13.5.2 Central Glass PVB Laminated Safety Glass Product Portfolios and Specifications
 - 13.5.3 Central Glass PVB Laminated Safety Glass Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Central Glass Main Business Overview
 - 13.5.5 Central Glass Latest Developments
- 13.6 PRESS GLASS S.A.
 - 13.6.1 PRESS GLASS S.A. Company Information
 - 13.6.2 PRESS GLASS S.A. PVB Laminated Safety Glass Product Portfolios and Specifications
 - 13.6.3 PRESS GLASS S.A. PVB Laminated Safety Glass Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 PRESS GLASS S.A. Main Business Overview

- 13.6.5 PRESS GLASS S.A. Latest Developments
- 13.7 sedak GmbH & Co. KG
 - 13.7.1 sedak GmbH & Co. KG Company Information
 - 13.7.2 sedak GmbH & Co. KG PVB Laminated Safety Glass Product Portfolios and Specifications
 - 13.7.3 sedak GmbH & Co. KG PVB Laminated Safety Glass Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 sedak GmbH & Co. KG Main Business Overview
 - 13.7.5 sedak GmbH & Co. KG Latest Developments
- 13.8 Viracon, Inc.
 - 13.8.1 Viracon, Inc. Company Information
 - 13.8.2 Viracon, Inc. PVB Laminated Safety Glass Product Portfolios and Specifications
 - 13.8.3 Viracon, Inc. PVB Laminated Safety Glass Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 Viracon, Inc. Main Business Overview
 - 13.8.5 Viracon, Inc. Latest Developments
- 13.9 Trulite Glass & Aluminum Solutions
 - 13.9.1 Trulite Glass & Aluminum Solutions Company Information
 - 13.9.2 Trulite Glass & Aluminum Solutions PVB Laminated Safety Glass Product Portfolios and Specifications
 - 13.9.3 Trulite Glass & Aluminum Solutions PVB Laminated Safety Glass Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 Trulite Glass & Aluminum Solutions Main Business Overview
 - 13.9.5 Trulite Glass & Aluminum Solutions Latest Developments
- 13.10 Fuyao Glass
 - 13.10.1 Fuyao Glass Company Information
 - 13.10.2 Fuyao Glass PVB Laminated Safety Glass Product Portfolios and Specifications
 - 13.10.3 Fuyao Glass PVB Laminated Safety Glass Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 Fuyao Glass Main Business Overview
 - 13.10.5 Fuyao Glass Latest Developments
- 13.11 Xinyi Glass
 - 13.11.1 Xinyi Glass Company Information
 - 13.11.2 Xinyi Glass PVB Laminated Safety Glass Product Portfolios and Specifications
 - 13.11.3 Xinyi Glass PVB Laminated Safety Glass Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 Xinyi Glass Main Business Overview
 - 13.11.5 Xinyi Glass Latest Developments

13.12 CSG Holding

13.12.1 CSG Holding Company Information

13.12.2 CSG Holding PVB Laminated Safety Glass Product Portfolios and Specifications

13.12.3 CSG Holding PVB Laminated Safety Glass Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 CSG Holding Main Business Overview

13.12.5 CSG Holding Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. PVB Laminated Safety Glass Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. PVB Laminated Safety Glass Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Annealed PVB Laminated Glass

Table 4. Major Players of Heat-Strengthened PVB Laminated Glass

Table 5. Major Players of Fully Tempered PVB Laminated Glass

Table 6. Major Players of Others

Table 7. Global PVB Laminated Safety Glass Sales by Type (2021-2026) & (K Sqm)

Table 8. Global PVB Laminated Safety Glass Sales Market Share by Type (2021-2026)

Table 9. Global PVB Laminated Safety Glass Revenue by Type (2021-2026) & (\$ million)

Table 10. Global PVB Laminated Safety Glass Revenue Market Share by Type (2021-2026)

Table 11. Global PVB Laminated Safety Glass Sale Price by Type (2021-2026) & (US\$/Sq m)

Table 12. Major Players of 0.38 mm PVB Laminated Glass

Table 13. Major Players of 0.76 mm PVB Laminated Glass

Table 14. Major Players of 1.14–1.52 mm PVB Laminated Glass

Table 15. Major Players of 2.28 mm PVB Laminated Glass

Table 16. Global PVB Laminated Safety Glass Sales by Interlayer Thickness (2021-2026) & (K Sqm)

Table 17. Global PVB Laminated Safety Glass Sales Market Share by Interlayer Thickness (2021-2026)

Table 18. Global PVB Laminated Safety Glass Revenue by Interlayer Thickness (2021-2026) & (\$ million)

Table 19. Global PVB Laminated Safety Glass Revenue Market Share by Interlayer Thickness (2021-2026)

Table 20. Global PVB Laminated Safety Glass Sale Price by Interlayer Thickness (2021-2026) & (US\$/Sq m)

Table 21. Global PVB Laminated Safety Glass Sale by Application (2021-2026) & (K Sqm)

Table 22. Global PVB Laminated Safety Glass Sale Market Share by Application (2021-2026)

Table 23. Global PVB Laminated Safety Glass Revenue by Application (2021-2026) &

(\$ million)

Table 24. Global PVB Laminated Safety Glass Revenue Market Share by Application (2021-2026)

Table 25. Global PVB Laminated Safety Glass Sale Price by Application (2021-2026) & (US\$/Sq m)

Table 26. Global PVB Laminated Safety Glass Sales by Company (2021-2026) & (K Sqm)

Table 27. Global PVB Laminated Safety Glass Sales Market Share by Company (2021-2026)

Table 28. Global PVB Laminated Safety Glass Revenue by Company (2021-2026) & (\$ millions)

Table 29. Global PVB Laminated Safety Glass Revenue Market Share by Company (2021-2026)

Table 30. Global PVB Laminated Safety Glass Sale Price by Company (2021-2026) & (US\$/Sq m)

Table 31. Key Manufacturers PVB Laminated Safety Glass Producing Area Distribution and Sales Area

Table 32. Players PVB Laminated Safety Glass Products Offered

Table 33. PVB Laminated Safety Glass Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 34. New Products and Potential Entrants

Table 35. Market M&A Activity & Strategy

Table 36. Global PVB Laminated Safety Glass Sales by Geographic Region (2021-2026) & (K Sqm)

Table 37. Global PVB Laminated Safety Glass Sales Market Share Geographic Region (2021-2026)

Table 38. Global PVB Laminated Safety Glass Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 39. Global PVB Laminated Safety Glass Revenue Market Share by Geographic Region (2021-2026)

Table 40. Global PVB Laminated Safety Glass Sales by Country/Region (2021-2026) & (K Sqm)

Table 41. Global PVB Laminated Safety Glass Sales Market Share by Country/Region (2021-2026)

Table 42. Global PVB Laminated Safety Glass Revenue by Country/Region (2021-2026) & (\$ millions)

Table 43. Global PVB Laminated Safety Glass Revenue Market Share by Country/Region (2021-2026)

Table 44. Americas PVB Laminated Safety Glass Sales by Country (2021-2026) & (K

Sqm)

Table 45. Americas PVB Laminated Safety Glass Sales Market Share by Country (2021-2026)

Table 46. Americas PVB Laminated Safety Glass Revenue by Country (2021-2026) & (\$ millions)

Table 47. Americas PVB Laminated Safety Glass Sales by Type (2021-2026) & (K Sqm)

Table 48. Americas PVB Laminated Safety Glass Sales by Application (2021-2026) & (K Sqm)

Table 49. APAC PVB Laminated Safety Glass Sales by Region (2021-2026) & (K Sqm)

Table 50. APAC PVB Laminated Safety Glass Sales Market Share by Region (2021-2026)

Table 51. APAC PVB Laminated Safety Glass Revenue by Region (2021-2026) & (\$ millions)

Table 52. APAC PVB Laminated Safety Glass Sales by Type (2021-2026) & (K Sqm)

Table 53. APAC PVB Laminated Safety Glass Sales by Application (2021-2026) & (K Sqm)

Table 54. Europe PVB Laminated Safety Glass Sales by Country (2021-2026) & (K Sqm)

Table 55. Europe PVB Laminated Safety Glass Revenue by Country (2021-2026) & (\$ millions)

Table 56. Europe PVB Laminated Safety Glass Sales by Type (2021-2026) & (K Sqm)

Table 57. Europe PVB Laminated Safety Glass Sales by Application (2021-2026) & (K Sqm)

Table 58. Middle East & Africa PVB Laminated Safety Glass Sales by Country (2021-2026) & (K Sqm)

Table 59. Middle East & Africa PVB Laminated Safety Glass Revenue Market Share by Country (2021-2026)

Table 60. Middle East & Africa PVB Laminated Safety Glass Sales by Type (2021-2026) & (K Sqm)

Table 61. Middle East & Africa PVB Laminated Safety Glass Sales by Application (2021-2026) & (K Sqm)

Table 62. Key Market Drivers & Growth Opportunities of PVB Laminated Safety Glass

Table 63. Key Market Challenges & Risks of PVB Laminated Safety Glass

Table 64. Key Industry Trends of PVB Laminated Safety Glass

Table 65. PVB Laminated Safety Glass Raw Material

Table 66. Key Suppliers of Raw Materials

Table 67. PVB Laminated Safety Glass Distributors List

Table 68. PVB Laminated Safety Glass Customer List

Table 69. Global PVB Laminated Safety Glass Sales Forecast by Region (2027-2032) & (K Sqm)

Table 70. Global PVB Laminated Safety Glass Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 71. Americas PVB Laminated Safety Glass Sales Forecast by Country (2027-2032) & (K Sqm)

Table 72. Americas PVB Laminated Safety Glass Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 73. APAC PVB Laminated Safety Glass Sales Forecast by Region (2027-2032) & (K Sqm)

Table 74. APAC PVB Laminated Safety Glass Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 75. Europe PVB Laminated Safety Glass Sales Forecast by Country (2027-2032) & (K Sqm)

Table 76. Europe PVB Laminated Safety Glass Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 77. Middle East & Africa PVB Laminated Safety Glass Sales Forecast by Country (2027-2032) & (K Sqm)

Table 78. Middle East & Africa PVB Laminated Safety Glass Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 79. Global PVB Laminated Safety Glass Sales Forecast by Type (2027-2032) & (K Sqm)

Table 80. Global PVB Laminated Safety Glass Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 81. Global PVB Laminated Safety Glass Sales Forecast by Application (2027-2032) & (K Sqm)

Table 82. Global PVB Laminated Safety Glass Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 83. Saint-Gobain Basic Information, PVB Laminated Safety Glass Manufacturing Base, Sales Area and Its Competitors

Table 84. Saint-Gobain PVB Laminated Safety Glass Product Portfolios and Specifications

Table 85. Saint-Gobain PVB Laminated Safety Glass Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 86. Saint-Gobain Main Business

Table 87. Saint-Gobain Latest Developments

Table 88. Guardian Glass Basic Information, PVB Laminated Safety Glass Manufacturing Base, Sales Area and Its Competitors

Table 89. Guardian Glass PVB Laminated Safety Glass Product Portfolios and

Specifications

Table 90. Guardian Glass PVB Laminated Safety Glass Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 91. Guardian Glass Main Business

Table 92. Guardian Glass Latest Developments

Table 93. AGC Inc. Basic Information, PVB Laminated Safety Glass Manufacturing Base, Sales Area and Its Competitors

Table 94. AGC Inc. PVB Laminated Safety Glass Product Portfolios and Specifications

Table 95. AGC Inc. PVB Laminated Safety Glass Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 96. AGC Inc. Main Business

Table 97. AGC Inc. Latest Developments

Table 98. Nippon Sheet Glass Basic Information, PVB Laminated Safety Glass Manufacturing Base, Sales Area and Its Competitors

Table 99. Nippon Sheet Glass PVB Laminated Safety Glass Product Portfolios and Specifications

Table 100. Nippon Sheet Glass PVB Laminated Safety Glass Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 101. Nippon Sheet Glass Main Business

Table 102. Nippon Sheet Glass Latest Developments

Table 103. Central Glass Basic Information, PVB Laminated Safety Glass Manufacturing Base, Sales Area and Its Competitors

Table 104. Central Glass PVB Laminated Safety Glass Product Portfolios and Specifications

Table 105. Central Glass PVB Laminated Safety Glass Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 106. Central Glass Main Business

Table 107. Central Glass Latest Developments

Table 108. PRESS GLASS S.A. Basic Information, PVB Laminated Safety Glass Manufacturing Base, Sales Area and Its Competitors

Table 109. PRESS GLASS S.A. PVB Laminated Safety Glass Product Portfolios and Specifications

Table 110. PRESS GLASS S.A. PVB Laminated Safety Glass Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 111. PRESS GLASS S.A. Main Business

Table 112. PRESS GLASS S.A. Latest Developments

Table 113. sedak GmbH & Co. KG Basic Information, PVB Laminated Safety Glass Manufacturing Base, Sales Area and Its Competitors

Table 114. sedak GmbH & Co. KG PVB Laminated Safety Glass Product Portfolios and

Specifications

Table 115. sedak GmbH & Co. KG PVB Laminated Safety Glass Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 116. sedak GmbH & Co. KG Main Business

Table 117. sedak GmbH & Co. KG Latest Developments

Table 118. Viracon, Inc. Basic Information, PVB Laminated Safety Glass Manufacturing Base, Sales Area and Its Competitors

Table 119. Viracon, Inc. PVB Laminated Safety Glass Product Portfolios and Specifications

Table 120. Viracon, Inc. PVB Laminated Safety Glass Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 121. Viracon, Inc. Main Business

Table 122. Viracon, Inc. Latest Developments

Table 123. Trulite Glass & Aluminum Solutions Basic Information, PVB Laminated Safety Glass Manufacturing Base, Sales Area and Its Competitors

Table 124. Trulite Glass & Aluminum Solutions PVB Laminated Safety Glass Product Portfolios and Specifications

Table 125. Trulite Glass & Aluminum Solutions PVB Laminated Safety Glass Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 126. Trulite Glass & Aluminum Solutions Main Business

Table 127. Trulite Glass & Aluminum Solutions Latest Developments

Table 128. Fuyao Glass Basic Information, PVB Laminated Safety Glass Manufacturing Base, Sales Area and Its Competitors

Table 129. Fuyao Glass PVB Laminated Safety Glass Product Portfolios and Specifications

Table 130. Fuyao Glass PVB Laminated Safety Glass Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 131. Fuyao Glass Main Business

Table 132. Fuyao Glass Latest Developments

Table 133. Xinyi Glass Basic Information, PVB Laminated Safety Glass Manufacturing Base, Sales Area and Its Competitors

Table 134. Xinyi Glass PVB Laminated Safety Glass Product Portfolios and Specifications

Table 135. Xinyi Glass PVB Laminated Safety Glass Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 136. Xinyi Glass Main Business

Table 137. Xinyi Glass Latest Developments

Table 138. CSG Holding Basic Information, PVB Laminated Safety Glass Manufacturing Base, Sales Area and Its Competitors

Table 139. CSG Holding PVB Laminated Safety Glass Product Portfolios and Specifications

Table 140. CSG Holding PVB Laminated Safety Glass Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 141. CSG Holding Main Business

Table 142. CSG Holding Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of PVB Laminated Safety Glass
- Figure 2. PVB Laminated Safety Glass Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global PVB Laminated Safety Glass Sales Growth Rate 2021-2032 (K Sqm)
- Figure 7. Global PVB Laminated Safety Glass Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. PVB Laminated Safety Glass Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. PVB Laminated Safety Glass Sales Market Share by Country/Region (2025)
- Figure 10. PVB Laminated Safety Glass Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Annealed PVB Laminated Glass
- Figure 12. Product Picture of Heat-Strengthened PVB Laminated Glass
- Figure 13. Product Picture of Fully Tempered PVB Laminated Glass
- Figure 14. Product Picture of Others
- Figure 15. Global PVB Laminated Safety Glass Sales Market Share by Type in 2026
- Figure 16. Global PVB Laminated Safety Glass Revenue Market Share by Type (2021-2026)
- Figure 17. Product Picture of 0.38 mm PVB Laminated Glass
- Figure 18. Product Picture of 0.76 mm PVB Laminated Glass
- Figure 19. Product Picture of 1.14–1.52 mm PVB Laminated Glass
- Figure 20. Product Picture of 2.28 mm PVB Laminated Glass
- Figure 21. Global PVB Laminated Safety Glass Sales Market Share by Interlayer Thickness in 2026
- Figure 22. Global PVB Laminated Safety Glass Revenue Market Share by Interlayer Thickness (2021-2026)
- Figure 23. PVB Laminated Safety Glass Consumed in Building & Construction
- Figure 24. Global PVB Laminated Safety Glass Market: Building & Construction (2021-2026) & (K Sqm)
- Figure 25. PVB Laminated Safety Glass Consumed in Automotive
- Figure 26. Global PVB Laminated Safety Glass Market: Automotive (2021-2026) & (K Sqm)
- Figure 27. PVB Laminated Safety Glass Consumed in Industrial

Figure 28. Global PVB Laminated Safety Glass Market: Industrial (2021-2026) & (K Sqm)

Figure 29. PVB Laminated Safety Glass Consumed in Others

Figure 30. Global PVB Laminated Safety Glass Market: Others (2021-2026) & (K Sqm)

Figure 31. Global PVB Laminated Safety Glass Sale Market Share by Application (2025)

Figure 32. Global PVB Laminated Safety Glass Revenue Market Share by Application in 2025

Figure 33. PVB Laminated Safety Glass Sales by Company in 2025 (K Sqm)

Figure 34. Global PVB Laminated Safety Glass Sales Market Share by Company in 2025

Figure 35. PVB Laminated Safety Glass Revenue by Company in 2025 (\$ millions)

Figure 36. Global PVB Laminated Safety Glass Revenue Market Share by Company in 2025

Figure 37. Global PVB Laminated Safety Glass Sales Market Share by Geographic Region (2021-2026)

Figure 38. Global PVB Laminated Safety Glass Revenue Market Share by Geographic Region in 2025

Figure 39. Americas PVB Laminated Safety Glass Sales 2021-2026 (K Sqm)

Figure 40. Americas PVB Laminated Safety Glass Revenue 2021-2026 (\$ millions)

Figure 41. APAC PVB Laminated Safety Glass Sales 2021-2026 (K Sqm)

Figure 42. APAC PVB Laminated Safety Glass Revenue 2021-2026 (\$ millions)

Figure 43. Europe PVB Laminated Safety Glass Sales 2021-2026 (K Sqm)

Figure 44. Europe PVB Laminated Safety Glass Revenue 2021-2026 (\$ millions)

Figure 45. Middle East & Africa PVB Laminated Safety Glass Sales 2021-2026 (K Sqm)

Figure 46. Middle East & Africa PVB Laminated Safety Glass Revenue 2021-2026 (\$ millions)

Figure 47. Americas PVB Laminated Safety Glass Sales Market Share by Country in 2025

Figure 48. Americas PVB Laminated Safety Glass Revenue Market Share by Country (2021-2026)

Figure 49. Americas PVB Laminated Safety Glass Sales Market Share by Type (2021-2026)

Figure 50. Americas PVB Laminated Safety Glass Sales Market Share by Application (2021-2026)

Figure 51. United States PVB Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

Figure 52. Canada PVB Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

Figure 53. Mexico PVB Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

Figure 54. Brazil PVB Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

Figure 55. APAC PVB Laminated Safety Glass Sales Market Share by Region in 2025

Figure 56. APAC PVB Laminated Safety Glass Revenue Market Share by Region (2021-2026)

Figure 57. APAC PVB Laminated Safety Glass Sales Market Share by Type (2021-2026)

Figure 58. APAC PVB Laminated Safety Glass Sales Market Share by Application (2021-2026)

Figure 59. China PVB Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

Figure 60. Japan PVB Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

Figure 61. South Korea PVB Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

Figure 62. Southeast Asia PVB Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

Figure 63. India PVB Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

Figure 64. Australia PVB Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

Figure 65. China Taiwan PVB Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

Figure 66. Europe PVB Laminated Safety Glass Sales Market Share by Country in 2025

Figure 67. Europe PVB Laminated Safety Glass Revenue Market Share by Country (2021-2026)

Figure 68. Europe PVB Laminated Safety Glass Sales Market Share by Type (2021-2026)

Figure 69. Europe PVB Laminated Safety Glass Sales Market Share by Application (2021-2026)

Figure 70. Germany PVB Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

Figure 71. France PVB Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

Figure 72. UK PVB Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

Figure 73. Italy PVB Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

Figure 74. Russia PVB Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

Figure 75. Middle East & Africa PVB Laminated Safety Glass Sales Market Share by Country (2021-2026)

Figure 76. Middle East & Africa PVB Laminated Safety Glass Sales Market Share by Type (2021-2026)

Figure 77. Middle East & Africa PVB Laminated Safety Glass Sales Market Share by Application (2021-2026)

Figure 78. Egypt PVB Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

Figure 79. South Africa PVB Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

Figure 80. Israel PVB Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

Figure 81. Turkey PVB Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

Figure 82. GCC Countries PVB Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

Figure 83. Manufacturing Cost Structure Analysis of PVB Laminated Safety Glass in 2026

Figure 84. Manufacturing Process Analysis of PVB Laminated Safety Glass

Figure 85. Industry Chain Structure of PVB Laminated Safety Glass

Figure 86. Channels of Distribution

Figure 87. Global PVB Laminated Safety Glass Sales Market Forecast by Region (2027-2032)

Figure 88. Global PVB Laminated Safety Glass Revenue Market Share Forecast by Region (2027-2032)

Figure 89. Global PVB Laminated Safety Glass Sales Market Share Forecast by Type (2027-2032)

Figure 90. Global PVB Laminated Safety Glass Revenue Market Share Forecast by Type (2027-2032)

Figure 91. Global PVB Laminated Safety Glass Sales Market Share Forecast by Application (2027-2032)

Figure 92. Global PVB Laminated Safety Glass Revenue Market Share Forecast by Application (2027-2032)

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