

Global PVB Toughened Laminated Safety Glass Market Growth 2026-2032

<https://marketpublishers.com/r/GCCF40E146A5EN.html>

Date: October 2026

Pages: 120

Price: US\$ 3,660.00 (Single User License)

ID: GCCF40E146A5EN

Abstracts

The global PVB Toughened Laminated Safety Glass market size is predicted to grow from US\$ 8110 million in 2025 to US\$ 11445 million in 2032; it is expected to grow at a CAGR of 5.1% from 2026 to 2032.

PVB Toughened Laminated Safety Glass refers to safety glazing manufactured by bonding two or more fully toughened glass plies with polyvinyl butyral (PVB) interlayers through pre-lamination, de-airing and high-temperature, high-pressure autoclave processing. Compared with conventional annealed laminated glass, the product combines the higher mechanical strength and thermal-shock resistance of toughened glass with the fragment-retention and penetration-resistance characteristics of PVB interlayers. The glass plies may further incorporate low-iron, tinted, coated, printed or curved configurations, while functional PVB interlayers can provide acoustic, solar-control, UV-protection or decorative performance. Major upstream materials include float glass, low-iron glass, coated glass, PVB interlayers, PVB resin and plasticizers. Downstream applications are concentrated in architectural facades, balustrades, canopies, skylights, doors, partitions and other safety-critical glazing, with additional demand from automotive roof and side glazing, rail transit, marine and security applications.

Key Findings

Global PVB Toughened Laminated Safety Glass production was approximately 180 million square meters in 2025

The global average ex-factory price was approximately US\$45 per square meter in 2025

Building and construction represents the largest downstream application, particularly in façades, balustrades, canopies and overhead glazing

Standard transparent products account for the largest volume, while Low-E, low-iron, acoustic and high-security products contribute disproportionately to revenue

Asia-Pacific is the largest production region, supported by China's large architectural and automotive safety glass processing capacity

Market Trends

The global PVB Toughened Laminated Safety Glass market is shifting from conventional transparent safety glazing toward larger-format, multifunctional and higher-value products. Architectural demand increasingly combines toughened laminated structures with Low-E coatings, low-iron substrates, acoustic PVB and decorative treatments. Large façades, glass balustrades, canopies and skylights are driving higher requirements for optical quality, edge processing and post-breakage safety. Automotive applications are also expanding through laminated sidelites, panoramic roofs and acoustic or solar-control glazing, although conventional laminated windshields should not automatically be included unless the glass plies meet the defined toughened-glass scope.

Market Dynamics

Drivers

Growth is supported by increasing use of glass in high-rise buildings, commercial façades and public infrastructure, together with stricter safety requirements for impact-prone and overhead glazing. Toughened glass provides higher mechanical and thermal resistance, while PVB retains fragments after breakage, making the combined structure suitable for applications requiring both strength and post-breakage safety. Expanding panoramic automotive glazing and higher demand for premium architectural safety glass provide additional market momentum.

Restraints

PVB Toughened Laminated Safety Glass requires multiple processing stages, including precision cutting, edge treatment, toughening, clean-room assembly, pre-lamination and

autoclaving, resulting in higher production costs than ordinary laminated or monolithic glass. Toughened glass cannot generally be cut or drilled after heat treatment, increasing requirements for dimensional accuracy before tempering. Large-format and curved products also face higher yield-loss, optical-distortion and transportation risks.

Opportunities

Key opportunities include high-performance curtain walls, glass balustrades, canopies, skylights, panoramic automotive roofs, laminated sidelites and high-security glazing. Combining toughened laminated structures with Low-E coatings, acoustic PVB, low-iron glass and solar-control technologies increases product value per square meter. Large-format architectural glazing and premium transportation applications are expected to become increasingly important sources of revenue growth.

Challenges

Manufacturers must balance high mechanical strength with optical quality, flatness and stable PVB adhesion. Roller-wave distortion, anisotropy, edge quality and dimensional tolerances generated during toughening can affect subsequent lamination quality. Increasing glass dimensions and complex curved geometries raise technical difficulty, while regional differences in building codes, safety standards and certification requirements increase compliance costs.

Industry Chain Analysis

The upstream sector includes float glass, low-iron glass, coated glass, PVB resin, PVB interlayers, plasticizers and related functional additives. Midstream manufacturing involves cutting, edging, drilling, printing where required, toughening, washing, PVB lay-up, pre-lamination, de-airing and autoclave processing. Higher-value manufacturers increasingly integrate coating, bending, digital printing and large-format processing. Downstream customers mainly include facade contractors, architectural glass processors, building developers, automotive glazing suppliers, rail transit manufacturers, shipbuilders and security glazing integrators.

Downstream Market Opportunities

Building and construction provides the largest market opportunity, particularly in curtain walls, balustrades, entrance systems, canopies, skylights and other areas where both impact resistance and fragment retention are required. Automotive opportunities are concentrated in panoramic roofs and laminated sidelites rather than conventional

windshield volumes. Rail transit, marine and high-security facilities offer smaller but higher-value opportunities for customized multi-layer and impact-resistant products.

Regional Insights

Asia-Pacific is the largest manufacturing and consumption region, led by China's extensive float glass and downstream processing infrastructure. Europe remains an important high-value market due to extensive use of laminated safety glass in modern facades and stringent building safety requirements. North America benefits from commercial construction, hurricane-resistant and security glazing demand. Japan maintains strong capabilities in high-quality architectural and transportation glazing, with particular emphasis on optical performance and manufacturing consistency.

Report Scope

LP Information, Inc. (LPI) 's newest research report, the "PVB Toughened Laminated Safety Glass Industry Forecast" looks at past sales and reviews total world PVB Toughened Laminated Safety Glass sales in 2025, providing a comprehensive analysis by region and market sector of projected PVB Toughened Laminated Safety Glass sales for 2026 through 2032. With PVB Toughened 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 Toughened Laminated Safety Glass industry.

This Insight Report provides a comprehensive analysis of the global PVB Toughened 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 Toughened 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 Toughened Laminated Safety Glass market.

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

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

Market Segmentation

Segmentation by Type:

Fully Tempered PVB Laminated Glass

Heat-Strengthened PVB Laminated Glass

Segmentation by Interlayer Thickness:

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

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 Toughened Laminated Safety

Glass market?

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

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

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

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

2.2 PVB Toughened Laminated Safety Glass Segment by Type

- 2.2.1 Fully Tempered PVB Laminated Glass
- 2.2.2 Heat-Strengthened PVB Laminated Glass
- 2.2.3 PVB Toughened Laminated Safety Glass Sales by Type
 - 2.2.3.1 Global PVB Toughened Laminated Safety Glass Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global PVB Toughened Laminated Safety Glass Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global PVB Toughened Laminated Safety Glass Sale Price by Type (2021-2026)

2.3 PVB Toughened Laminated Safety Glass Segment by Interlayer Thickness

- 2.3.1 0.76 mm PVB Laminated Glass
- 2.3.2 1.14–1.52 mm PVB Laminated Glass
- 2.3.3 2.28 mm PVB Laminated Glass
- 2.3.4 PVB Toughened Laminated Safety Glass Sales by Interlayer Thickness
 - 2.3.4.1 Global PVB Toughened Laminated Safety Glass Sales Market Share by Interlayer Thickness (2021-2026)
 - 2.3.4.2 Global PVB Toughened Laminated Safety Glass Revenue and Market Share

by Interlayer Thickness (2021-2026)

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

2.4 PVB Toughened 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 Toughened Laminated Safety Glass Sales by Application

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

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

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

3 GLOBAL BY COMPANY

3.1 Global PVB Toughened Laminated Safety Glass Breakdown Data by Company

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

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

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

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

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

3.3 Global PVB Toughened Laminated Safety Glass Sale Price by Company

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

3.4.1 Key Manufacturers PVB Toughened Laminated Safety Glass Product Location Distribution

3.4.2 Players PVB Toughened 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 TOUGHENED LAMINATED SAFETY GLASS BY GEOGRAPHIC REGION

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

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

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

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

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

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

4.3 Americas PVB Toughened Laminated Safety Glass Sales Growth

4.4 APAC PVB Toughened Laminated Safety Glass Sales Growth

4.5 Europe PVB Toughened Laminated Safety Glass Sales Growth

4.6 Middle East & Africa PVB Toughened Laminated Safety Glass Sales Growth

5 AMERICAS

5.1 Americas PVB Toughened Laminated Safety Glass Sales by Country

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

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

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

5.3 Americas PVB Toughened 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 Toughened Laminated Safety Glass Sales by Region

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

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

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

6.3 APAC PVB Toughened 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 Toughened Laminated Safety Glass by Country

7.1.1 Europe PVB Toughened Laminated Safety Glass Sales by Country (2021-2026)

7.1.2 Europe PVB Toughened Laminated Safety Glass Revenue by Country (2021-2026)

7.2 Europe PVB Toughened Laminated Safety Glass Sales by Type (2021-2026)

7.3 Europe PVB Toughened 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 Toughened Laminated Safety Glass by Country

8.1.1 Middle East & Africa PVB Toughened Laminated Safety Glass Sales by Country (2021-2026)

8.1.2 Middle East & Africa PVB Toughened Laminated Safety Glass Revenue by Country (2021-2026)

8.2 Middle East & Africa PVB Toughened Laminated Safety Glass Sales by Type (2021-2026)

8.3 Middle East & Africa PVB Toughened 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 Toughened Laminated Safety Glass
- 10.3 Manufacturing Process Analysis of PVB Toughened Laminated Safety Glass
- 10.4 Industry Chain Structure of PVB Toughened 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 Toughened Laminated Safety Glass Distributors
- 11.3 PVB Toughened Laminated Safety Glass Customer

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

- 12.1 Global PVB Toughened Laminated Safety Glass Market Size Forecast by Region
 - 12.1.1 Global PVB Toughened Laminated Safety Glass Forecast by Region (2027-2032)
 - 12.1.2 Global PVB Toughened 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 Toughened Laminated Safety Glass Forecast by Type (2027-2032)

12.7 Global PVB Toughened 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 Toughened Laminated Safety Glass Product Portfolios and Specifications

13.1.3 Saint-Gobain PVB Toughened 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 Toughened Laminated Safety Glass Product Portfolios and Specifications

13.2.3 Guardian Glass PVB Toughened 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 Toughened Laminated Safety Glass Product Portfolios and Specifications

13.3.3 AGC Inc. PVB Toughened 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 Toughened Laminated Safety Glass Product Portfolios and Specifications

13.4.3 Nippon Sheet Glass PVB Toughened 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 PRESS GLASS S.A.

- 13.5.1 PRESS GLASS S.A. Company Information
- 13.5.2 PRESS GLASS S.A. PVB Toughened Laminated Safety Glass Product Portfolios and Specifications
- 13.5.3 PRESS GLASS S.A. PVB Toughened Laminated Safety Glass Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.5.4 PRESS GLASS S.A. Main Business Overview
- 13.5.5 PRESS GLASS S.A. Latest Developments
- 13.6 sedak GmbH & Co. KG
- 13.6.1 sedak GmbH & Co. KG Company Information
- 13.6.2 sedak GmbH & Co. KG PVB Toughened Laminated Safety Glass Product Portfolios and Specifications
- 13.6.3 sedak GmbH & Co. KG PVB Toughened Laminated Safety Glass Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.6.4 sedak GmbH & Co. KG Main Business Overview
- 13.6.5 sedak GmbH & Co. KG Latest Developments
- 13.7 Viracon, Inc.
- 13.7.1 Viracon, Inc. Company Information
- 13.7.2 Viracon, Inc. PVB Toughened Laminated Safety Glass Product Portfolios and Specifications
- 13.7.3 Viracon, Inc. PVB Toughened Laminated Safety Glass Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.7.4 Viracon, Inc. Main Business Overview
- 13.7.5 Viracon, Inc. Latest Developments
- 13.8 Trulite Glass & Aluminum Solutions
- 13.8.1 Trulite Glass & Aluminum Solutions Company Information
- 13.8.2 Trulite Glass & Aluminum Solutions PVB Toughened Laminated Safety Glass Product Portfolios and Specifications
- 13.8.3 Trulite Glass & Aluminum Solutions PVB Toughened Laminated Safety Glass Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.8.4 Trulite Glass & Aluminum Solutions Main Business Overview
- 13.8.5 Trulite Glass & Aluminum Solutions Latest Developments
- 13.9 Fuyao Glass
- 13.9.1 Fuyao Glass Company Information
- 13.9.2 Fuyao Glass PVB Toughened Laminated Safety Glass Product Portfolios and Specifications
- 13.9.3 Fuyao Glass PVB Toughened Laminated Safety Glass Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.9.4 Fuyao Glass Main Business Overview
- 13.9.5 Fuyao Glass Latest Developments

13.10 Xinyi Glass

13.10.1 Xinyi Glass Company Information

13.10.2 Xinyi Glass PVB Toughened Laminated Safety Glass Product Portfolios and Specifications

13.10.3 Xinyi Glass PVB Toughened Laminated Safety Glass Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Xinyi Glass Main Business Overview

13.10.5 Xinyi Glass Latest Developments

13.11 CSG Holding

13.11.1 CSG Holding Company Information

13.11.2 CSG Holding PVB Toughened Laminated Safety Glass Product Portfolios and Specifications

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

13.11.4 CSG Holding Main Business Overview

13.11.5 CSG Holding Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

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

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

Table 3. Major Players of Fully Tempered PVB Laminated Glass

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

Table 5. Global PVB Toughened Laminated Safety Glass Sales by Type (2021-2026) & (K Sqm)

Table 6. Global PVB Toughened Laminated Safety Glass Sales Market Share by Type (2021-2026)

Table 7. Global PVB Toughened Laminated Safety Glass Revenue by Type (2021-2026) & (\$ million)

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

Table 9. Global PVB Toughened Laminated Safety Glass Sale Price by Type (2021-2026) & (US\$/Sq m)

Table 10. Major Players of 7.6 mm PVB Laminated Glass

Table 11. Major Players of 1.14–1.52 mm PVB Laminated Glass

Table 12. Major Players of 2.28 mm PVB Laminated Glass

Table 13. Global PVB Toughened Laminated Safety Glass Sales by Interlayer Thickness (2021-2026) & (K Sqm)

Table 14. Global PVB Toughened Laminated Safety Glass Sales Market Share by Interlayer Thickness (2021-2026)

Table 15. Global PVB Toughened Laminated Safety Glass Revenue by Interlayer Thickness (2021-2026) & (\$ million)

Table 16. Global PVB Toughened Laminated Safety Glass Revenue Market Share by Interlayer Thickness (2021-2026)

Table 17. Global PVB Toughened Laminated Safety Glass Sale Price by Interlayer Thickness (2021-2026) & (US\$/Sq m)

Table 18. Global PVB Toughened Laminated Safety Glass Sale by Application (2021-2026) & (K Sqm)

Table 19. Global PVB Toughened Laminated Safety Glass Sale Market Share by Application (2021-2026)

Table 20. Global PVB Toughened Laminated Safety Glass Revenue by Application (2021-2026) & (\$ million)

Table 21. Global PVB Toughened Laminated Safety Glass Revenue Market Share by Application (2021-2026)

Table 22. Global PVB Toughened Laminated Safety Glass Sale Price by Application (2021-2026) & (US\$/Sq m)

Table 23. Global PVB Toughened Laminated Safety Glass Sales by Company (2021-2026) & (K Sqm)

Table 24. Global PVB Toughened Laminated Safety Glass Sales Market Share by Company (2021-2026)

Table 25. Global PVB Toughened Laminated Safety Glass Revenue by Company (2021-2026) & (\$ millions)

Table 26. Global PVB Toughened Laminated Safety Glass Revenue Market Share by Company (2021-2026)

Table 27. Global PVB Toughened Laminated Safety Glass Sale Price by Company (2021-2026) & (US\$/Sq m)

Table 28. Key Manufacturers PVB Toughened Laminated Safety Glass Producing Area Distribution and Sales Area

Table 29. Players PVB Toughened Laminated Safety Glass Products Offered

Table 30. PVB Toughened Laminated Safety Glass Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 31. New Products and Potential Entrants

Table 32. Market M&A Activity & Strategy

Table 33. Global PVB Toughened Laminated Safety Glass Sales by Geographic Region (2021-2026) & (K Sqm)

Table 34. Global PVB Toughened Laminated Safety Glass Sales Market Share Geographic Region (2021-2026)

Table 35. Global PVB Toughened Laminated Safety Glass Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 36. Global PVB Toughened Laminated Safety Glass Revenue Market Share by Geographic Region (2021-2026)

Table 37. Global PVB Toughened Laminated Safety Glass Sales by Country/Region (2021-2026) & (K Sqm)

Table 38. Global PVB Toughened Laminated Safety Glass Sales Market Share by Country/Region (2021-2026)

Table 39. Global PVB Toughened Laminated Safety Glass Revenue by Country/Region (2021-2026) & (\$ millions)

Table 40. Global PVB Toughened Laminated Safety Glass Revenue Market Share by Country/Region (2021-2026)

Table 41. Americas PVB Toughened Laminated Safety Glass Sales by Country (2021-2026) & (K Sqm)

Table 42. Americas PVB Toughened Laminated Safety Glass Sales Market Share by Country (2021-2026)

Table 43. Americas PVB Toughened Laminated Safety Glass Revenue by Country (2021-2026) & (\$ millions)

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

Table 45. Americas PVB Toughened Laminated Safety Glass Sales by Application (2021-2026) & (K Sqm)

Table 46. APAC PVB Toughened Laminated Safety Glass Sales by Region (2021-2026) & (K Sqm)

Table 47. APAC PVB Toughened Laminated Safety Glass Sales Market Share by Region (2021-2026)

Table 48. APAC PVB Toughened Laminated Safety Glass Revenue by Region (2021-2026) & (\$ millions)

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

Table 50. APAC PVB Toughened Laminated Safety Glass Sales by Application (2021-2026) & (K Sqm)

Table 51. Europe PVB Toughened Laminated Safety Glass Sales by Country (2021-2026) & (K Sqm)

Table 52. Europe PVB Toughened Laminated Safety Glass Revenue by Country (2021-2026) & (\$ millions)

Table 53. Europe PVB Toughened Laminated Safety Glass Sales by Type (2021-2026) & (K Sqm)

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

Table 55. Middle East & Africa PVB Toughened Laminated Safety Glass Sales by Country (2021-2026) & (K Sqm)

Table 56. Middle East & Africa PVB Toughened Laminated Safety Glass Revenue Market Share by Country (2021-2026)

Table 57. Middle East & Africa PVB Toughened Laminated Safety Glass Sales by Type (2021-2026) & (K Sqm)

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

Table 59. Key Market Drivers & Growth Opportunities of PVB Toughened Laminated Safety Glass

Table 60. Key Market Challenges & Risks of PVB Toughened Laminated Safety Glass

Table 61. Key Industry Trends of PVB Toughened Laminated Safety Glass

Table 62. PVB Toughened Laminated Safety Glass Raw Material

Table 63. Key Suppliers of Raw Materials
Table 64. PVB Toughened Laminated Safety Glass Distributors List
Table 65. PVB Toughened Laminated Safety Glass Customer List
Table 66. Global PVB Toughened Laminated Safety Glass Sales Forecast by Region (2027-2032) & (K Sqm)
Table 67. Global PVB Toughened Laminated Safety Glass Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 68. Americas PVB Toughened Laminated Safety Glass Sales Forecast by Country (2027-2032) & (K Sqm)
Table 69. Americas PVB Toughened Laminated Safety Glass Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 70. APAC PVB Toughened Laminated Safety Glass Sales Forecast by Region (2027-2032) & (K Sqm)
Table 71. APAC PVB Toughened Laminated Safety Glass Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 72. Europe PVB Toughened Laminated Safety Glass Sales Forecast by Country (2027-2032) & (K Sqm)
Table 73. Europe PVB Toughened Laminated Safety Glass Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 74. Middle East & Africa PVB Toughened Laminated Safety Glass Sales Forecast by Country (2027-2032) & (K Sqm)
Table 75. Middle East & Africa PVB Toughened Laminated Safety Glass Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 76. Global PVB Toughened Laminated Safety Glass Sales Forecast by Type (2027-2032) & (K Sqm)
Table 77. Global PVB Toughened Laminated Safety Glass Revenue Forecast by Type (2027-2032) & (\$ millions)
Table 78. Global PVB Toughened Laminated Safety Glass Sales Forecast by Application (2027-2032) & (K Sqm)
Table 79. Global PVB Toughened Laminated Safety Glass Revenue Forecast by Application (2027-2032) & (\$ millions)
Table 80. Saint-Gobain Basic Information, PVB Toughened Laminated Safety Glass Manufacturing Base, Sales Area and Its Competitors
Table 81. Saint-Gobain PVB Toughened Laminated Safety Glass Product Portfolios and Specifications
Table 82. Saint-Gobain PVB Toughened Laminated Safety Glass Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)
Table 83. Saint-Gobain Main Business
Table 84. Saint-Gobain Latest Developments

Table 85. Guardian Glass Basic Information, PVB Toughened Laminated Safety Glass Manufacturing Base, Sales Area and Its Competitors

Table 86. Guardian Glass PVB Toughened Laminated Safety Glass Product Portfolios and Specifications

Table 87. Guardian Glass PVB Toughened Laminated Safety Glass Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 88. Guardian Glass Main Business

Table 89. Guardian Glass Latest Developments

Table 90. AGC Inc. Basic Information, PVB Toughened Laminated Safety Glass Manufacturing Base, Sales Area and Its Competitors

Table 91. AGC Inc. PVB Toughened Laminated Safety Glass Product Portfolios and Specifications

Table 92. AGC Inc. PVB Toughened Laminated Safety Glass Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 93. AGC Inc. Main Business

Table 94. AGC Inc. Latest Developments

Table 95. Nippon Sheet Glass Basic Information, PVB Toughened Laminated Safety Glass Manufacturing Base, Sales Area and Its Competitors

Table 96. Nippon Sheet Glass PVB Toughened Laminated Safety Glass Product Portfolios and Specifications

Table 97. Nippon Sheet Glass PVB Toughened Laminated Safety Glass Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 98. Nippon Sheet Glass Main Business

Table 99. Nippon Sheet Glass Latest Developments

Table 100. PRESS GLASS S.A. Basic Information, PVB Toughened Laminated Safety Glass Manufacturing Base, Sales Area and Its Competitors

Table 101. PRESS GLASS S.A. PVB Toughened Laminated Safety Glass Product Portfolios and Specifications

Table 102. PRESS GLASS S.A. PVB Toughened Laminated Safety Glass Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 103. PRESS GLASS S.A. Main Business

Table 104. PRESS GLASS S.A. Latest Developments

Table 105. sedak GmbH & Co. KG Basic Information, PVB Toughened Laminated Safety Glass Manufacturing Base, Sales Area and Its Competitors

Table 106. sedak GmbH & Co. KG PVB Toughened Laminated Safety Glass Product Portfolios and Specifications

Table 107. sedak GmbH & Co. KG PVB Toughened Laminated Safety Glass Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 108. sedak GmbH & Co. KG Main Business

Table 109. sedak GmbH & Co. KG Latest Developments

Table 110. Viracon, Inc. Basic Information, PVB Toughened Laminated Safety Glass Manufacturing Base, Sales Area and Its Competitors

Table 111. Viracon, Inc. PVB Toughened Laminated Safety Glass Product Portfolios and Specifications

Table 112. Viracon, Inc. PVB Toughened Laminated Safety Glass Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 113. Viracon, Inc. Main Business

Table 114. Viracon, Inc. Latest Developments

Table 115. Trulite Glass & Aluminum Solutions Basic Information, PVB Toughened Laminated Safety Glass Manufacturing Base, Sales Area and Its Competitors

Table 116. Trulite Glass & Aluminum Solutions PVB Toughened Laminated Safety Glass Product Portfolios and Specifications

Table 117. Trulite Glass & Aluminum Solutions PVB Toughened Laminated Safety Glass Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 118. Trulite Glass & Aluminum Solutions Main Business

Table 119. Trulite Glass & Aluminum Solutions Latest Developments

Table 120. Fuyao Glass Basic Information, PVB Toughened Laminated Safety Glass Manufacturing Base, Sales Area and Its Competitors

Table 121. Fuyao Glass PVB Toughened Laminated Safety Glass Product Portfolios and Specifications

Table 122. Fuyao Glass PVB Toughened Laminated Safety Glass Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 123. Fuyao Glass Main Business

Table 124. Fuyao Glass Latest Developments

Table 125. Xinyi Glass Basic Information, PVB Toughened Laminated Safety Glass Manufacturing Base, Sales Area and Its Competitors

Table 126. Xinyi Glass PVB Toughened Laminated Safety Glass Product Portfolios and Specifications

Table 127. Xinyi Glass PVB Toughened Laminated Safety Glass Sales (K Sqm), Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 128. Xinyi Glass Main Business

Table 129. Xinyi Glass Latest Developments

Table 130. CSG Holding Basic Information, PVB Toughened Laminated Safety Glass Manufacturing Base, Sales Area and Its Competitors

Table 131. CSG Holding PVB Toughened Laminated Safety Glass Product Portfolios and Specifications

Table 132. CSG Holding PVB Toughened Laminated Safety Glass Sales (K Sqm),

Revenue (\$ Million), Price (US\$/Sq m) and Gross Margin (2021-2026)

Table 133. CSG Holding Main Business

Table 134. CSG Holding Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Picture of PVB Toughened Laminated Safety Glass

Figure 2. PVB Toughened 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 Toughened Laminated Safety Glass Sales Growth Rate
2021-2032 (K Sqm)

Figure 7. Global PVB Toughened Laminated Safety Glass Revenue Growth Rate
2021-2032 (\$ millions)

Figure 8. PVB Toughened Laminated Safety Glass Sales by Geographic Region (2021,
2025 & 2032) & (\$ millions)

Figure 9. PVB Toughened Laminated Safety Glass Sales Market Share by
Country/Region (2025)

Figure 10. PVB Toughened Laminated Safety Glass Sales Market Share by
Country/Region (2021, 2025 & 2032)

Figure 11. Product Picture of Fully Tempered PVB Laminated Glass

Figure 12. Product Picture of Heat-Strengthened PVB Laminated Glass

Figure 13. Global PVB Toughened Laminated Safety Glass Sales Market Share by
Type in 2026

Figure 14. Global PVB Toughened Laminated Safety Glass Revenue Market Share by
Type (2021-2026)

Figure 15. Product Picture of 7.62 mm PVB Laminated Glass

Figure 16. Product Picture of 1.14–1.52 mm PVB Laminated Glass

Figure 17. Product Picture of 2.28 mm PVB Laminated Glass

Figure 18. Global PVB Toughened Laminated Safety Glass Sales Market Share by
Interlayer Thickness in 2026

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

Figure 20. PVB Toughened Laminated Safety Glass Consumed in Building &
Construction

Figure 21. Global PVB Toughened Laminated Safety Glass Market: Building &
Construction (2021-2026) & (K Sqm)

Figure 22. PVB Toughened Laminated Safety Glass Consumed in Automotive

Figure 23. Global PVB Toughened Laminated Safety Glass Market: Automotive
(2021-2026) & (K Sqm)

- Figure 24. PVB Toughened Laminated Safety Glass Consumed in Industrial
- Figure 25. Global PVB Toughened Laminated Safety Glass Market: Industrial (2021-2026) & (K Sqm)
- Figure 26. PVB Toughened Laminated Safety Glass Consumed in Others
- Figure 27. Global PVB Toughened Laminated Safety Glass Market: Others (2021-2026) & (K Sqm)
- Figure 28. Global PVB Toughened Laminated Safety Glass Sale Market Share by Application (2025)
- Figure 29. Global PVB Toughened Laminated Safety Glass Revenue Market Share by Application in 2025
- Figure 30. PVB Toughened Laminated Safety Glass Sales by Company in 2025 (K Sqm)
- Figure 31. Global PVB Toughened Laminated Safety Glass Sales Market Share by Company in 2025
- Figure 32. PVB Toughened Laminated Safety Glass Revenue by Company in 2025 (\$ millions)
- Figure 33. Global PVB Toughened Laminated Safety Glass Revenue Market Share by Company in 2025
- Figure 34. Global PVB Toughened Laminated Safety Glass Sales Market Share by Geographic Region (2021-2026)
- Figure 35. Global PVB Toughened Laminated Safety Glass Revenue Market Share by Geographic Region in 2025
- Figure 36. Americas PVB Toughened Laminated Safety Glass Sales 2021-2026 (K Sqm)
- Figure 37. Americas PVB Toughened Laminated Safety Glass Revenue 2021-2026 (\$ millions)
- Figure 38. APAC PVB Toughened Laminated Safety Glass Sales 2021-2026 (K Sqm)
- Figure 39. APAC PVB Toughened Laminated Safety Glass Revenue 2021-2026 (\$ millions)
- Figure 40. Europe PVB Toughened Laminated Safety Glass Sales 2021-2026 (K Sqm)
- Figure 41. Europe PVB Toughened Laminated Safety Glass Revenue 2021-2026 (\$ millions)
- Figure 42. Middle East & Africa PVB Toughened Laminated Safety Glass Sales 2021-2026 (K Sqm)
- Figure 43. Middle East & Africa PVB Toughened Laminated Safety Glass Revenue 2021-2026 (\$ millions)
- Figure 44. Americas PVB Toughened Laminated Safety Glass Sales Market Share by Country in 2025
- Figure 45. Americas PVB Toughened Laminated Safety Glass Revenue Market Share

by Country (2021-2026)

Figure 46. Americas PVB Toughened Laminated Safety Glass Sales Market Share by Type (2021-2026)

Figure 47. Americas PVB Toughened Laminated Safety Glass Sales Market Share by Application (2021-2026)

Figure 48. United States PVB Toughened Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

Figure 49. Canada PVB Toughened Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

Figure 50. Mexico PVB Toughened Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

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

Figure 52. APAC PVB Toughened Laminated Safety Glass Sales Market Share by Region in 2025

Figure 53. APAC PVB Toughened Laminated Safety Glass Revenue Market Share by Region (2021-2026)

Figure 54. APAC PVB Toughened Laminated Safety Glass Sales Market Share by Type (2021-2026)

Figure 55. APAC PVB Toughened Laminated Safety Glass Sales Market Share by Application (2021-2026)

Figure 56. China PVB Toughened Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

Figure 57. Japan PVB Toughened Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

Figure 58. South Korea PVB Toughened Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

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

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

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

Figure 62. China Taiwan PVB Toughened Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

Figure 63. Europe PVB Toughened Laminated Safety Glass Sales Market Share by Country in 2025

Figure 64. Europe PVB Toughened Laminated Safety Glass Revenue Market Share by Country (2021-2026)

Figure 65. Europe PVB Toughened Laminated Safety Glass Sales Market Share by Type (2021-2026)

Figure 66. Europe PVB Toughened Laminated Safety Glass Sales Market Share by Application (2021-2026)

Figure 67. Germany PVB Toughened Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

Figure 68. France PVB Toughened Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

Figure 69. UK PVB Toughened Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

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

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

Figure 72. Middle East & Africa PVB Toughened Laminated Safety Glass Sales Market Share by Country (2021-2026)

Figure 73. Middle East & Africa PVB Toughened Laminated Safety Glass Sales Market Share by Type (2021-2026)

Figure 74. Middle East & Africa PVB Toughened Laminated Safety Glass Sales Market Share by Application (2021-2026)

Figure 75. Egypt PVB Toughened Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

Figure 76. South Africa PVB Toughened Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

Figure 77. Israel PVB Toughened Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

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

Figure 79. GCC Countries PVB Toughened Laminated Safety Glass Revenue Growth 2021-2026 (\$ millions)

Figure 80. Manufacturing Cost Structure Analysis of PVB Toughened Laminated Safety Glass in 2026

Figure 81. Manufacturing Process Analysis of PVB Toughened Laminated Safety Glass

Figure 82. Industry Chain Structure of PVB Toughened Laminated Safety Glass

Figure 83. Channels of Distribution

Figure 84. Global PVB Toughened Laminated Safety Glass Sales Market Forecast by Region (2027-2032)

Figure 85. Global PVB Toughened Laminated Safety Glass Revenue Market Share Forecast by Region (2027-2032)

Figure 86. Global PVB Toughened Laminated Safety Glass Sales Market Share
Forecast by Type (2027-2032)

Figure 87. Global PVB Toughened Laminated Safety Glass Revenue Market Share
Forecast by Type (2027-2032)

Figure 88. Global PVB Toughened Laminated Safety Glass Sales Market Share
Forecast by Application (2027-2032)

Figure 89. Global PVB Toughened Laminated Safety Glass Revenue Market Share
Forecast by Application (2027-2032)

I would like to order

Product name: Global PVB Toughened Laminated Safety Glass Market Growth 2026-2032

Product link: <https://marketpublishers.com/r/GCCF40E146A5EN.html>

Price: US\$ 3,660.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GCCF40E146A5EN.html>