

Impact Resistant Glass Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented, By Interlayer (Polyvinyl Butyral, Ionoplast Polymer and Ethylene Vinyl Acetate), By End-User (Construction & Infrastructure, Automotive & Transportation and Others), By Region, By Competition, 2020-2030F

<https://marketpublishers.com/r/IF292D8FEEFBEN.html>

Date: February 2025

Pages: 188

Price: US\$ 4,500.00 (Single User License)

ID: IF292D8FEEFBEN

Abstracts

Global Impact Resistant Glass Market was valued at USD 4.24 billion in 2024 and is expected to reach USD 7.57 billion by 2030 with a CAGR of 9.84% during the forecast period. The Impact Resistant Glass Market refers to the global industry focused on the production, distribution, and application of specialized glass designed to withstand high-impact forces without shattering or breaking into hazardous shards. This type of glass is manufactured using advanced processing techniques, such as tempering, laminating, and chemical strengthening, to enhance its durability, safety, and resilience against external stressors, including mechanical impacts, extreme weather conditions, and ballistic threats. Impact-resistant glass finds widespread applications across various industries, including automotive, construction, aerospace, defense, marine, and security, where safety, structural integrity, and protection from environmental hazards are critical.

Key Market Drivers

Rising Demand for Impact-Resistant Glass in the Automotive and Transportation Sector

The increasing demand for impact-resistant glass in the automotive and transportation industry is a key driver propelling the growth of the market. As safety regulations

become more stringent worldwide, automakers are incorporating advanced materials to enhance passenger protection and vehicle durability. Impact-resistant glass, known for its superior strength and shatter-resistant properties, is widely used in windshields, side windows, and sunroofs to minimize the risk of injuries during collisions. This trend is particularly evident in luxury and high-performance vehicles, where safety and aesthetics go hand in hand. Additionally, the expansion of electric vehicles (EVs) and autonomous vehicles is further driving demand, as manufacturers prioritize lightweight, durable, and energy-efficient materials. The need for impact-resistant glass is also growing in the aviation and railway industries, where high-speed travel necessitates robust materials that can withstand extreme pressure, temperature changes, and debris impact. Furthermore, increasing urbanization and the rise in road traffic accidents are compelling governments to mandate the use of laminated and tempered glass in vehicles to enhance passenger safety.

The widespread adoption of smart glass technologies, which integrate impact-resistant properties with functionalities like UV protection, noise reduction, and self-tinting capabilities, is further bolstering the market. In emerging economies, government initiatives aimed at improving vehicle safety standards and reducing road fatalities are fueling the adoption of impact-resistant glass, leading to sustained market growth. Additionally, the proliferation of ride-sharing services, public transportation, and logistics industries necessitates durable vehicle components, further stimulating demand. The continuous investment in R&D by glass manufacturers to develop multi-functional impact-resistant glass with improved strength, clarity, and lightweight properties is expected to drive innovation and market expansion. The surge in demand for bulletproof and explosion-resistant glass in military and defense vehicles is another factor accelerating market growth, as security concerns heighten globally. With automakers increasingly focusing on sustainability, impact-resistant glass is being integrated into eco-friendly vehicle designs that prioritize recyclability and energy efficiency. The combination of regulatory push, technological advancements, and shifting consumer preferences toward high-performance and safety-enhanced vehicles is expected to drive the continued expansion of the impact-resistant glass market in the automotive and transportation sector. The electric vehicle market alone is expected to reach over USD 800 billion by 2027, with a CAGR of 21% from 2023 onwards.

Growing Applications in the Construction and Infrastructure Industry

The rising adoption of impact-resistant glass in the construction and infrastructure sector is a major driver fueling market growth. As the global construction industry witnesses rapid expansion, especially in urban areas, there is an increasing demand for

high-performance building materials that ensure safety, durability, and energy efficiency. Impact-resistant glass is extensively used in commercial and residential buildings, including skyscrapers, hotels, office complexes, and shopping malls, to protect occupants from extreme weather conditions, forced entry, and accidental impacts. The rise in natural disasters, such as hurricanes, earthquakes, and storms, has further amplified the demand for impact-resistant glass, particularly in regions prone to such calamities. For instance, in coastal areas, stringent building codes mandate the use of hurricane-resistant glass to withstand high winds and flying debris, thereby preventing structural damage and enhancing occupant safety. The increasing adoption of smart cities and green building initiatives is also driving demand for impact-resistant glass, as it contributes to energy efficiency, noise reduction, and aesthetic appeal. Additionally, impact-resistant glass is widely used in public infrastructure projects, such as airports, railway stations, and government buildings, where security and durability are paramount.

The growing trend of floor-to-ceiling glass facades in modern architecture further necessitates the use of robust glass solutions that can withstand both human and environmental impact. Governments and regulatory bodies worldwide are enforcing stringent safety standards and building codes, compelling construction firms to integrate impact-resistant materials into their designs. The rising concerns over burglaries and forced entry in residential and commercial spaces have also led to increased adoption of impact-resistant security glass, which offers superior protection against break-ins while maintaining transparency and aesthetics. The development of advanced glass coatings and laminates, which enhance impact resistance while offering additional benefits such as UV protection and heat insulation, is further driving innovation in the industry. The push toward sustainable construction practices and eco-friendly materials is encouraging manufacturers to develop recyclable and energy-efficient impact-resistant glass solutions, aligning with global sustainability goals. Additionally, the rising disposable income in emerging economies is fueling demand for luxury homes and high-end real estate projects that integrate impact-resistant glass for both safety and aesthetic purposes. The ongoing technological advancements in manufacturing processes, such as the development of ultra-thin and high-strength glass, are expected to further accelerate market growth in the construction and infrastructure sector. The global construction market is expected to reach USD 19 trillion by 2030, growing at a CAGR of 5%.

Increasing Demand for Impact-Resistant Glass in Aerospace, Defense, and Security Applications

The growing need for impact-resistant glass in aerospace, defense, and security applications is a significant factor driving market expansion. With increasing global security concerns, military and defense agencies are investing heavily in advanced protective materials, including bulletproof and explosion-resistant glass, to enhance personnel safety and asset protection. Impact-resistant glass is widely used in armored vehicles, military aircraft, naval vessels, and defense infrastructure to provide enhanced protection against ballistic threats, shrapnel, and extreme environmental conditions. The rising geopolitical tensions and cross-border conflicts have led to increased defense budgets worldwide, driving demand for high-performance protective solutions, including advanced glass technologies. Additionally, the growing use of impact-resistant glass in critical security installations, such as embassies, government buildings, and data centers, is further propelling market growth. In the aerospace industry, impact-resistant glass is a crucial component in aircraft windshields and cockpit windows, where it must withstand extreme pressure, temperature fluctuations, and potential bird strikes. The expansion of commercial aviation and the rise in global air travel have intensified the demand for durable and lightweight impact-resistant glass that enhances passenger safety without compromising fuel efficiency.

Impact-resistant glass is increasingly being integrated into security and surveillance applications, such as banks, correctional facilities, and high-security enclosures, to protect against forced entry, gunfire, and explosions. The ongoing technological advancements in glass manufacturing, including the development of multi-layered laminates, nanotechnology-based coatings, and self-healing glass, are driving innovation in the security and defense sector. The rise of smart glass technologies, which combine impact resistance with functionalities such as electrochromic tinting and energy efficiency, is further expanding application possibilities. Additionally, the increasing focus on homeland security and counter-terrorism measures is prompting governments to implement stringent safety protocols, boosting demand for impact-resistant glass in both public and private security infrastructures. The rapid growth of the unmanned aerial vehicle (UAV) market is also contributing to demand, as drones and reconnaissance aircraft require lightweight yet highly durable materials to ensure operational efficiency and longevity. The increasing investments in space exploration and satellite technology are further expected to drive the adoption of impact-resistant glass, which is used in spacecraft windows and protective shields. As technological advancements continue to enhance the performance, durability, and application scope of impact-resistant glass, its demand across aerospace, defense, and security sectors is anticipated to grow significantly, further propelling market expansion. The global aerospace market is projected to reach USD 1.4 trillion by 2030, growing at a CAGR of 6.5%.

Key Market Challenges

High Production Costs and Pricing Pressure

The Impact Resistant Glass Market faces a significant challenge due to the high production costs associated with advanced manufacturing processes and specialized raw materials. The production of impact-resistant glass requires the integration of advanced technologies such as lamination, tempering, and chemical strengthening, which significantly elevate manufacturing expenses. The inclusion of multiple layers of polyvinyl butyral (PVB) or ethylene-vinyl acetate (EVA), along with additional coatings for UV resistance and energy efficiency, further drives up costs. Additionally, sourcing high-quality raw materials, such as high-grade silica, borosilicate, or strengthened polycarbonate layers, is expensive, and price fluctuations in these materials contribute to unpredictability in production costs. The necessity for precision engineering and quality control measures to ensure compliance with stringent safety standards such as ANSI Z97.1, ASTM C1036, and EN 356 also adds to the overall cost burden. In highly competitive markets, manufacturers often struggle to balance cost-efficiency with performance requirements, making it difficult to keep prices competitive while ensuring durability and compliance with impact resistance standards.

Another factor intensifying this challenge is the growing consumer demand for affordable impact-resistant glass solutions in industries such as automotive, construction, and aerospace, where bulk procurement is common. However, cost-conscious buyers often opt for cheaper alternatives such as reinforced acrylic or standard tempered glass, which may not offer the same level of impact resistance but remain attractive due to lower price points. The challenge is further compounded by pricing pressure from low-cost manufacturers, particularly in regions like China and India, where economies of scale and government incentives allow local players to offer impact-resistant glass at significantly lower prices. This creates a pricing disparity between premium international brands and cost-effective regional manufacturers, making it difficult for global players to sustain profit margins. The market also faces financial hurdles related to high research and development (R&D) investments for innovations such as self-healing glass, smart impact-resistant glass with embedded sensors, and ultra-lightweight compositions for aerospace applications, which require extensive testing and regulatory approvals before commercialization. Moreover, the rising energy costs involved in glass production, particularly in high-temperature furnaces for annealing, laminating, and tempering, add to the overall financial strain on manufacturers. Given these factors, companies in the Impact Resistant Glass Market

must constantly innovate to develop cost-effective solutions without compromising safety and performance, while also navigating global pricing pressures and cost fluctuations to remain competitive in the long run.

Stringent Regulatory Compliance and Certification Complexities

Another critical challenge in the Impact Resistant Glass Market is the need for strict regulatory compliance and adherence to multiple international certification standards, which vary across regions and industries. Impact-resistant glass is primarily used in high-risk environments such as hurricane-prone areas, high-security buildings, automotive windshields, and military applications, where safety is a top priority. As a result, governments and industry bodies impose rigorous testing protocols to ensure the glass meets impact resistance, shatterproof properties, and durability requirements. For example, in the construction industry, impact-resistant glass must comply with the American Society for Testing and Materials (ASTM) standards, including ASTM E1996 for hurricane impact resistance and ASTM C1172 for laminated architectural glass. Similarly, in the automotive sector, manufacturers must ensure compliance with Federal Motor Vehicle Safety Standards (FMVSS 205) and the European ECE R43 regulation for windshield safety. The complexity arises because each application requires different levels of impact resistance, necessitating specialized testing procedures that increase costs and time-to-market for manufacturers. For example, glass used in hurricane-resistant windows must withstand high-velocity projectiles and cyclic wind pressure tests, while ballistic-resistant glass used in security applications must comply with UL 752 or EN 1063 standards, requiring multilayered lamination and additional reinforcements. These varying requirements pose significant design and manufacturing challenges, as companies must customize formulations for different applications, which adds to R&D costs and complicates mass production.

Frequent updates in safety regulations require ongoing investment in testing and certification renewal, placing a burden on manufacturers to continuously adapt to evolving compliance norms. For instance, in regions with stringent hurricane codes such as Florida, new standards introduced by the Florida Building Code (FBC) and Miami-Dade County require glass to pass additional impact tests, forcing manufacturers to upgrade their product lines. The complexity of certification processes also delays market entry for new players, limiting competition and hindering the expansion of small and medium-sized enterprises (SMEs). Additionally, compliance costs vary significantly by region, making it difficult for global manufacturers to maintain uniform pricing and supply chain efficiency. For instance, European regulations emphasize eco-friendly materials and energy-efficient glazing, adding another layer of compliance challenges.

that impact cost structures. The rise of sustainable building codes and environmental regulations is also reshaping the market, as manufacturers must invest in low-emission coatings, recycled materials, and energy-efficient production processes to meet global green building certifications such as LEED and BREEAM. Companies that fail to keep up with these regulatory demands risk losing market share to competitors who successfully integrate compliance into their production models. In essence, the Impact Resistant Glass Market faces a continuous struggle to align with diverse regulatory frameworks, testing requirements, and sustainability mandates, making compliance one of the most costly and time-consuming challenges for industry players worldwide.

Key Market Trends

Increasing Adoption in Sustainable and Energy-Efficient Building Designs

The growing emphasis on sustainability and energy efficiency in modern construction is significantly shaping the impact-resistant glass market. Governments and regulatory bodies worldwide are enforcing stringent energy codes and green building standards, such as LEED (Leadership in Energy and Environmental Design) certification and the International Energy Conservation Code (IECC), which are driving the demand for high-performance impact-resistant glass. This trend is particularly noticeable in regions prone to hurricanes, earthquakes, and extreme weather conditions, where impact-resistant glass is essential for structural safety. The integration of low-emissivity (Low-E) coatings, double-glazing, and smart glass technologies into impact-resistant glass solutions enhances thermal insulation and reduces energy consumption, making them an attractive choice for eco-conscious builders and homeowners.

In addition, the increasing adoption of net-zero energy buildings, which require advanced glazing solutions to optimize indoor temperature regulation, is further fueling market growth. Technological advancements, such as vacuum-insulated glass (VIG) and dynamic glass with electrochromic capabilities, are making impact-resistant glass more energy-efficient while maintaining structural integrity. Additionally, architects and developers are leveraging these solutions to meet consumer demand for natural light without compromising on safety. The use of laminated glass with advanced interlayers, such as polyvinyl butyral (PVB) and ionoplast, ensures that buildings remain protected from break-ins, blasts, and harsh weather conditions while also improving acoustic insulation, a key factor in modern urban construction. The increased focus on sustainability is also evident in the rising demand for recyclable and eco-friendly materials in glass manufacturing, which reduces carbon footprints and aligns with the global push for environmentally responsible construction. As more cities implement

building codes that require the use of resilient and energy-efficient materials, the impact-resistant glass market is expected to witness robust growth in the coming years.

Rising Demand in the Automotive and Transportation Industry

The automotive and transportation sectors are experiencing a surge in demand for impact-resistant glass, driven by advancements in vehicle safety standards, rising consumer awareness about protection, and increasing adoption of electric and autonomous vehicles. Modern vehicles require superior safety features to meet stringent crash-test regulations, and impact-resistant glass plays a crucial role in enhancing occupant protection. Laminated and tempered glass solutions, which are designed to withstand high-impact forces while preventing shattering, are becoming standard in automotive applications. This is particularly critical in luxury and electric vehicles (EVs), where glass panels are larger, and panoramic sunroofs, augmented reality (AR) windshields, and smart glass technologies are being increasingly incorporated. The growing trend of lightweight materials in vehicle manufacturing, aimed at improving fuel efficiency and extending EV range, is further propelling the adoption of impact-resistant glass, as manufacturers seek thinner yet stronger glazing solutions. Additionally, the expanding high-speed rail and aerospace industries are contributing to the market's growth, as impact-resistant glass is essential for passenger safety in high-velocity environments. Bulletproof and reinforced glass solutions are also gaining traction in military and armored vehicles, further expanding the application scope. Advanced manufacturing processes, such as chemically strengthened glass and hybrid polymer interlayers, are enhancing the resilience of impact-resistant glass while reducing weight, making it an attractive option for automotive manufacturers looking to optimize safety without compromising on aesthetics. As autonomous and connected vehicle technologies continue to evolve, the integration of impact-resistant glass with embedded sensors, heads-up displays (HUDs), and self-tinting functionalities is expected to drive innovation and market expansion.

Segmental Insights

Interlayer Insights

The Polyvinyl Butyral segment held the largest Market share in 2024. The polyvinyl butyral (PVB) segment is a key driver of growth in the impact-resistant glass market, primarily due to its superior safety, durability, and optical clarity, making it an essential interlayer material in laminated glass applications. PVB interlayers enhance the impact resistance of glass by absorbing and dispersing energy upon impact, reducing the

likelihood of shattering and providing enhanced protection against break-ins, extreme weather conditions, and accidental impacts. This characteristic makes PVB-laminated impact-resistant glass a preferred choice in automotive, construction, and aerospace industries, where stringent safety regulations and increasing consumer demand for high-performance materials are fueling adoption. In the automotive sector, PVB interlayers play a crucial role in windshields and side windows, as they not only enhance impact resistance but also contribute to noise reduction and UV radiation filtering, improving passenger comfort and safety. The increasing production of electric vehicles (EVs), which prioritize lightweight and high-strength materials, is further driving demand for PVB-based impact-resistant glass. Additionally, the construction industry is witnessing significant growth in demand for laminated glass with PVB interlayers, especially in regions prone to hurricanes, earthquakes, and high-security threats. Stringent building codes and standards, such as those set by the American Society for Testing and Materials (ASTM) and the International Building Code (IBC), mandate the use of impact-resistant glazing in commercial and residential buildings, further propelling market growth.

The rising trend of green buildings and sustainable construction practices is also driving demand for PVB-laminated glass, as it enhances energy efficiency by reducing heat transfer and improving insulation. Additionally, the solar energy sector is emerging as a lucrative market for PVB-based impact-resistant glass, as it is used in photovoltaic panels to enhance durability and weather resistance. Technological advancements in advanced polymer formulations and multi-layered PVB interlayers have further expanded its application scope, improving adhesion, flexibility, and optical performance. Leading manufacturers are increasingly investing in bio-based and recycled PVB materials to align with sustainability initiatives, which is expected to open new avenues for market expansion. Moreover, the aerospace industry is adopting PVB-laminated impact-resistant glass for cockpit windows and cabin interiors, ensuring passenger safety while maintaining lightweight construction. The increasing focus on security and defense applications, where bullet-resistant and explosion-proof glazing is essential, is also driving demand for PVB-based impact-resistant glass solutions. Additionally, the rising disposable income and urbanization trends in emerging economies such as China, India, and Brazil are fueling growth in high-end architectural projects that require advanced glass solutions. However, rising raw material costs and stringent environmental regulations regarding volatile organic compound (VOC) emissions from PVB production could pose challenges to market growth. To mitigate these concerns, manufacturers are focusing on developing eco-friendly PVB interlayers and improving production efficiencies. Overall, the increasing emphasis on safety, security, energy efficiency, and sustainability across various industries is expected to drive substantial

growth in the impact-resistant glass market, particularly in the polyvinyl butyral segment, making it a crucial component in modern glazing solutions.

Regional Insights

North America region held the largest market share in 2024. The Impact Resistant Glass Market in North America is experiencing significant growth, driven by several key factors. One of the primary drivers is the rising frequency of extreme weather events, such as hurricanes, tornadoes, and storms, particularly in coastal regions like Florida, Texas, and the Gulf Coast. This has led to stringent building codes and regulations that mandate the use of impact-resistant glass in residential and commercial structures to enhance safety and minimize damage. Additionally, increasing investments in infrastructure development and smart cities across North America are fueling the demand for durable and resilient construction materials, further boosting the adoption of impact-resistant glass in commercial buildings, airports, and public infrastructure projects. The growing preference for energy-efficient and sustainable building materials is another critical driver, as impact-resistant glass, often combined with low-emissivity (Low-E) coatings, improves insulation, reduces energy consumption, and meets Leadership in Energy and Environmental Design (LEED) certification requirements. Moreover, rising security concerns in both residential and commercial sectors are leading to the growing adoption of impact-resistant glass for enhanced protection against break-ins, forced entry, and ballistic threats, particularly in high-risk areas such as banks, embassies, and government buildings. The expanding automotive sector in North America is also propelling market growth, as manufacturers increasingly integrate impact-resistant laminated glass in windshields and windows to improve vehicle safety standards, reduce noise pollution, and enhance passenger protection.

The surge in real estate investments and renovation activities across the U.S. and Canada, particularly in urban areas, is fostering the demand for high-performance glass solutions that offer both aesthetic appeal and structural resilience. The advancements in glass manufacturing technologies, such as chemical strengthening processes and multi-layer lamination, are further enhancing the quality and performance of impact-resistant glass, making it more cost-effective and accessible to a wider range of end-users. Additionally, the presence of leading industry players in North America, coupled with ongoing research and development initiatives, is accelerating innovation and driving product diversification to cater to specific industry needs, such as enhanced UV protection, soundproofing, and customized designs. The increasing awareness about workplace safety standards and regulations set by organizations like the Occupational Safety and Health Administration (OSHA) and the American Architectural Manufacturers

Association (AAMA) is also contributing to the growing adoption of impact-resistant glass in commercial and industrial facilities. Moreover, government incentives and tax benefits for the adoption of energy-efficient and disaster-resistant building materials are further stimulating market expansion. With rising disposable incomes and changing consumer preferences, there is also a growing demand for premium, high-quality glass products in luxury residential and commercial projects. Lastly, the COVID-19 pandemic has accelerated the trend of remote work and home renovations, leading to increased spending on home improvement projects, including the installation of impact-resistant windows and doors for enhanced safety and energy efficiency. Collectively, these factors are driving the robust growth of the Impact Resistant Glass Market in North America, positioning it as a critical segment in the construction, automotive, and security industries.

Key Market Players

AGC Inc.

Nippon Sheet Glass Co., Ltd.

Saint-Gobain

Koch, Inc. (Guardian Industries)

Fuyao Glass Industry Group Co., Ltd.

Central Glass Co. Ltd.

PGT Innovations, Inc.

Taiwan Glass Industry Corporation

Vitro, S.A.B de C.V

S.A.B. De C.V.

Report Scope:

In this report, the Global Impact Resistant Glass Market has been segmented into the

following categories, in addition to the industry trends which have also been detailed below:

Impact Resistant Glass Market, By Interlayer:

Polyvinyl Butyral

Ionoplast Polymer

Ethylene Vinyl Acetate

Impact Resistant Glass Market, By End-User:

Construction & Infrastructure

Automotive & Transportation

Others

Impact Resistant Glass Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Turkey

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the Global Impact Resistant Glass Market.

Available Customizations:

Global Impact Resistant Glass Market report with the given Market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional Market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
- 1.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Formulation of the Scope
- 2.4. Assumptions and Limitations
- 2.5. Sources of Research
 - 2.5.1. Secondary Research
 - 2.5.2. Primary Research
- 2.6. Approach for the Market Study
 - 2.6.1. The Bottom-Up Approach
 - 2.6.2. The Top-Down Approach
- 2.7. Methodology Followed for Calculation of Market Size & Market Shares
- 2.8. Forecasting Methodology
 - 2.8.1. Data Triangulation & Validation

3. EXECUTIVE SUMMARY

4. VOICE OF CUSTOMER

5. GLOBAL IMPACT RESISTANT GLASS MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Interlayer (Polyvinyl Butyral, Ionoplast Polymer and Ethylene Vinyl Acetate)
 - 5.2.2. By End-User (Construction & Infrastructure, Automotive & Transportation and Others)
 - 5.2.3. By Region

5.3. By Company (2024)

5.4. Market Map

6. NORTH AMERICA IMPACT RESISTANT GLASS MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Interlayer

6.2.2. By End-User

6.2.3. By Country

6.3. North America: Country Analysis

6.3.1. United States Impact Resistant Glass Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Interlayer

6.3.1.2.2. By End-User

6.3.2. Canada Impact Resistant Glass Market Outlook

6.3.2.1. Market Size & Forecast

6.3.2.1.1. By Value

6.3.2.2. Market Share & Forecast

6.3.2.2.1. By Interlayer

6.3.2.2.2. By End-User

6.3.3. Mexico Impact Resistant Glass Market Outlook

6.3.3.1. Market Size & Forecast

6.3.3.1.1. By Value

6.3.3.2. Market Share & Forecast

6.3.3.2.1. By Interlayer

6.3.3.2.2. By End-User

7. EUROPE IMPACT RESISTANT GLASS MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Interlayer

7.2.2. By End-User

7.2.3. By Country

7.3. Europe: Country Analysis

7.3.1. Germany Impact Resistant Glass Market Outlook

7.3.1.1. Market Size & Forecast

7.3.1.1.1. By Value

7.3.1.2. Market Share & Forecast

7.3.1.2.1. By Interlayer

7.3.1.2.2. By End-User

7.3.2. United Kingdom Impact Resistant Glass Market Outlook

7.3.2.1. Market Size & Forecast

7.3.2.1.1. By Value

7.3.2.2. Market Share & Forecast

7.3.2.2.1. By Interlayer

7.3.2.2.2. By End-User

7.3.3. Italy Impact Resistant Glass Market Outlook

7.3.3.1. Market Size & Forecast

7.3.3.1.1. By Value

7.3.3.2. Market Share & Forecast

7.3.3.2.1. By Interlayer

7.3.3.2.2. By End-User

7.3.4. France Impact Resistant Glass Market Outlook

7.3.4.1. Market Size & Forecast

7.3.4.1.1. By Value

7.3.4.2. Market Share & Forecast

7.3.4.2.1. By Interlayer

7.3.4.2.2. By End-User

7.3.5. Spain Impact Resistant Glass Market Outlook

7.3.5.1. Market Size & Forecast

7.3.5.1.1. By Value

7.3.5.2. Market Share & Forecast

7.3.5.2.1. By Interlayer

7.3.5.2.2. By End-User

8. ASIA-PACIFIC IMPACT RESISTANT GLASS MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Interlayer

8.2.2. By End-User

8.2.3. By Country

8.3. Asia-Pacific: Country Analysis

8.3.1. China Impact Resistant Glass Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value

8.3.1.2. Market Share & Forecast

8.3.1.2.1. By Interlayer

8.3.1.2.2. By End-User

8.3.2. India Impact Resistant Glass Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By Value

8.3.2.2. Market Share & Forecast

8.3.2.2.1. By Interlayer

8.3.2.2.2. By End-User

8.3.3. Japan Impact Resistant Glass Market Outlook

8.3.3.1. Market Size & Forecast

8.3.3.1.1. By Value

8.3.3.2. Market Share & Forecast

8.3.3.2.1. By Interlayer

8.3.3.2.2. By End-User

8.3.4. South Korea Impact Resistant Glass Market Outlook

8.3.4.1. Market Size & Forecast

8.3.4.1.1. By Value

8.3.4.2. Market Share & Forecast

8.3.4.2.1. By Interlayer

8.3.4.2.2. By End-User

8.3.5. Australia Impact Resistant Glass Market Outlook

8.3.5.1. Market Size & Forecast

8.3.5.1.1. By Value

8.3.5.2. Market Share & Forecast

8.3.5.2.1. By Interlayer

8.3.5.2.2. By End-User

9. SOUTH AMERICA IMPACT RESISTANT GLASS MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Interlayer

- 9.2.2. By End-User
- 9.2.3. By Country
- 9.3. South America: Country Analysis
 - 9.3.1. Brazil Impact Resistant Glass Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Interlayer
 - 9.3.1.2.2. By End-User
 - 9.3.2. Argentina Impact Resistant Glass Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Interlayer
 - 9.3.2.2.2. By End-User
 - 9.3.3. Colombia Impact Resistant Glass Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Interlayer
 - 9.3.3.2.2. By End-User

10. MIDDLE EAST AND AFRICA IMPACT RESISTANT GLASS MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Interlayer
 - 10.2.2. By End-User
 - 10.2.3. By Country
- 10.3. Middle East and Africa: Country Analysis
 - 10.3.1. South Africa Impact Resistant Glass Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Interlayer
 - 10.3.1.2.2. By End-User
 - 10.3.2. Saudi Arabia Impact Resistant Glass Market Outlook
 - 10.3.2.1. Market Size & Forecast

- 10.3.2.1.1. By Value
- 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Interlayer
 - 10.3.2.2.2. By End-User
- 10.3.3. UAE Impact Resistant Glass Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Interlayer
 - 10.3.3.2.2. By End-User
- 10.3.4. Kuwait Impact Resistant Glass Market Outlook
 - 10.3.4.1. Market Size & Forecast
 - 10.3.4.1.1. By Value
 - 10.3.4.2. Market Share & Forecast
 - 10.3.4.2.1. By Interlayer
 - 10.3.4.2.2. By End-User
- 10.3.5. Turkey Impact Resistant Glass Market Outlook
 - 10.3.5.1. Market Size & Forecast
 - 10.3.5.1.1. By Value
 - 10.3.5.2. Market Share & Forecast
 - 10.3.5.2.1. By Interlayer
 - 10.3.5.2.2. By End-User

11. MARKET DYNAMICS

- 11.1. Drivers
- 11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

13. COMPANY PROFILES

- 13.1. AGC Inc.
 - 13.1.1. Business Overview
 - 13.1.2. Key Revenue and Financials
 - 13.1.3. Recent Developments
 - 13.1.4. Key Personnel/Key Contact Person
 - 13.1.5. Key Product/Services Offered
- 13.2. Nippon Sheet Glass Co., Ltd.

- 13.2.1. Business Overview
- 13.2.2. Key Revenue and Financials
- 13.2.3. Recent Developments
- 13.2.4. Key Personnel/Key Contact Person
- 13.2.5. Key Product/Services Offered
- 13.3. Saint-Gobain
 - 13.3.1. Business Overview
 - 13.3.2. Key Revenue and Financials
 - 13.3.3. Recent Developments
 - 13.3.4. Key Personnel/Key Contact Person
 - 13.3.5. Key Product/Services Offered
- 13.4. Koch, Inc. (Guardian Industries)
 - 13.4.1. Business Overview
 - 13.4.2. Key Revenue and Financials
 - 13.4.3. Recent Developments
 - 13.4.4. Key Personnel/Key Contact Person
 - 13.4.5. Key Product/Services Offered
- 13.5. Fuyao Glass Industry Group Co., Ltd.
 - 13.5.1. Business Overview
 - 13.5.2. Key Revenue and Financials
 - 13.5.3. Recent Developments
 - 13.5.4. Key Personnel/Key Contact Person
 - 13.5.5. Key Product/Services Offered
- 13.6. Central Glass Co. Ltd.
 - 13.6.1. Business Overview
 - 13.6.2. Key Revenue and Financials
 - 13.6.3. Recent Developments
 - 13.6.4. Key Personnel/Key Contact Person
 - 13.6.5. Key Product/Services Offered
- 13.7. PGT Innovations, Inc.
 - 13.7.1. Business Overview
 - 13.7.2. Key Revenue and Financials
 - 13.7.3. Recent Developments
 - 13.7.4. Key Personnel/Key Contact Person
 - 13.7.5. Key Product/Services Offered
- 13.8. Taiwan Glass Industry Corporation
 - 13.8.1. Business Overview
 - 13.8.2. Key Revenue and Financials
 - 13.8.3. Recent Developments

13.8.4. Key Personnel/Key Contact Person

13.8.5. Key Product/Services Offered

13.9. Vitro, S.A.B de C.V.

13.9.1. Business Overview

13.9.2. Key Revenue and Financials

13.9.3. Recent Developments

13.9.4. Key Personnel/Key Contact Person

13.9.5. Key Product/Services Offered

13.10. S.A.B. De C.V.

13.10.1. Business Overview

13.10.2. Key Revenue and Financials

13.10.3. Recent Developments

13.10.4. Key Personnel/Key Contact Person

13.10.5. Key Product/Services Offered

14. STRATEGIC RECOMMENDATIONS

15. ABOUT US & DISCLAIMER

I would like to order

Product name: Impact Resistant Glass Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented, By Interlayer (Polyvinyl Butyral, Ionoplast Polymer and Ethylene Vinyl Acetate), By End-User (Construction & Infrastructure, Automotive & Transportation and Others), By Region, By Competition, 2020-2030F

Product link: <https://marketpublishers.com/r/IF292D8FEEFBEN.html>

Price: US\$ 4,500.00 (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/IF292D8FEEFBEN.html>