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Polycarbonate Glazing Market Research Report- Forecast till 2030

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Description:

Global Polycarbonate Glazing Market Overview

Polycarbonate Glazing Market Size was valued at USD 14.2 billion in 2022. The Polycarbonate Glazing market industry is projected to grow from USD 15.26 Billion in 2023 to USD 27.22 billion by 2032, exhibiting a compound annual growth rate (CAGR) of 7.50% during the forecast period (2023 - 2032). Increased sustainable living and advancement in the construction sector are the key market drivers contributing to overall market growth and expansion.

Global Polycarbonate Glazing Market

Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review

Polycarbonate Glazing Market Trends

• Growing construction activity is driving the market growth

The rising number of construction activities is driving market CAGR for polycarbonate glazing. The main market growth drivers are the expansion of the building industry, favorable government legislation and regulations, and an increase in vehicle production. A significant portion of the market's growth has also been attributed to a population increase among urban section and their ability to spend. All of these variables are expected to contribute to the market experiencing steady expansion during the anticipated period. The usage of the sheets is widespread and will undoubtedly expand to more industries. As people become more conscious of the issue, they are turning their attention to sustainable building practices, which have raised the demand for polycarbonate glass.

Additionally, there has been an increase in the demand for lightweight automobiles as stricter regulations are put in place to reduce vehicle emissions. The car industry has seen significant growth in sales. Furthermore, growing in popularity is polycarbonate security glazing. The market has expanded as a result of all of this. But certain factors, such as the expensive cost and restrictions on employing polycarbonate window glazing in automotive windscreens, have been limiting the rise. PC glazing not only complies with strict fuel economy standards, but it also provides amazing design and aesthetic freedom, including that connected to the integration of automobile parts. An increase in the manufacturing of fuel-efficient vehicles has driven the market for PC glazing solutions. Particularly, PC glazing chemicals are gaining popularity with producers of electric vehicles, which also gives the potential for corporate expansion. Vendors in the market have been pushed by the rise in demand for environmentally friendly resin goods to enhance the percentage of renewable resources in PC products. Over the past few years, their commercialization has accelerated, and this pattern has created new growth frontiers.

COVID-19 impacts the automobile sector because facilities where cars and their parts are manufactured, cannot be done remotely. The new coronavirus has infected areas with significant manufacturing hubs; thus, containment precautions are taken there. The lockdown has halted international trade in goods and impacted supply networks worldwide. However, it is projected that the market for electric vehicles will expand after the pandemic. As automotive polycarbonate glazing delivers a 50% weight reduction over the glass in a vehicle, this would, in turn, drive the market for it.

For instance, according to the EPA, a 100-pound decrease in vehicle weight results in a 1-2% increase in fuel efficiency. The rise in energy efficiency will help drivers and OEMs by enabling them to accomplish the fleet-level emissions goal. Therefore, vehicle manufacturers such as glazing producers tend to concentrate on releasing and producing glazing items made of polycarbonate. As a result, it is anticipated that demand for Polycarbonate Glazing will increase throughout the projection period due to the rising automobile and construction industry. Thus, driving the Polycarbonate Glazing market revenue.

Polycarbonate Glazing Market Segment Insights

Polycarbonate Glazing Application Insights

The Polycarbonate Glazing market segmentation, based on application, includes Windscreens, Architectural glazing, illuminated signage and displays, Roofing and skylights, Sidelights, and Others. Architectural glazing dominated the market, accounting for 55% of the market share (USD 7.8 billion) in 2022. The roofing and skylights category is expected to grow steadily during the projected time frame due to high demand in the automotive industry.

Figure 1: Polycarbonate Glazing Market, by Application, 2022 & 2032 (USD billion)

Polycarbonate Glazing Market, by Application, 2022 & 2032

Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review

Polycarbonate Glazing End-User Insights

The Polycarbonate Glazing market segmentation, based on End-User, includes Commercial Construction, Horticulture and agriculture, Industrial Construction, Institutional Construction, Automotive, and Others. The industrial construction category generated the highest revenue of 60% in 2022. The industrial sub-segment category dominates the market because of its rising industrialization.

Polycarbonate Glazing Regional Insights

By Region, the study provides market insights into North America, Europe, Asia-Pacific, and the Rest of the World. The North American Polycarbonate Glazing Market area will dominate this market, owing to increasing industrialization and increasing demand for housing.

Further, the major countries studied in the market report are The U.S., Canada, Germany, France, the UK, Italy, Spain, China, Japan, India, Australia, South Korea, and Brazil.

Figure 2: Polycarbonate Glazing market share by region 2022 (%)

Polycarbonate Glazing market share by region 2022

Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review

Europe region's Polycarbonate Glazing market accounts for the second-highest market share due to increased consumer expenditure on high-end vehicles. The quick improvement in coating processes for glazing has contributed to this growth prospect Region. Further, the German Polycarbonate Glazing market dominates the market revenue, and the UK Polycarbonate Glazing market is anticipated to grow significantly in the European Region.

The Asia-Pacific Polycarbonate Glazing Market is expected to grow steadily during the projected timeframe. This is due to rapid industrialization, urbanization, and automobile sector growth. Moreover, China's Polycarbonate Glazing market dominates, and the Indian Polycarbonate Glazing market is expected to expand significantly in the Asia-Pacific region.

For instance, Americans are actively shifting themselves to sustainable living, and a shift in consumer preferences; therefore, polycarbonate glazing in vehicles and rooftops is increasing, ultimately contributing to market growth.

Polycarbonate Glazing Key Market Players & Competitive Insights

Leading market players are investing heavily in research and development to produce sustainable solutions, which will help the Polycarbonate Glazing market to grow. Market participants are also undertaking strategic approaches, whether inorganic or organic, to expand and strengthen their footprint, with important market developments including product launches, contractual agreements, mergers and acquisitions, high expenditure and investments, and strategic alliances with other organizations. The Polycarbonate Glazing industry must offer cost-effective and sustainable options to compete and survive in a fragmented market.

Manufacturing locally to minimize expenses is one of the key business tactics organizations use in the Polycarbonate Glazing industry to benefit consumers and ultimately increase their market revenue. The Polycarbonate Glazing industry has offered significant advantages to automotive and construction businesses. Major Polycarbonate Glazing market players include SABIC, Brett Martin Plastic Sheets, Guangdong Amuse Plastic Products Co., Limited, Plazit Polygal, and MG Polyplast Industries Pvt. Ltd. Palram Industries Ltd., and Gallina are attempting to capture market share by investing in research and development to produce sustainable options.

In 1987, Krd Sicherheitstechnik GmbH was established. The production of surgical instruments and supplies is one of the company's business divisions. They have high-tech glazing made of unique material characteristics. Their products rank among the most cutting-edge ones available. They have a dedicated research team working on new high-tech items, paint development, and manufacturing. For protection and safety, they offer a wide range of application sectors, including car openings, cabin glazing, the manufacturing of semi-finished goods, air travel, and many more. In 2016, One of the fastest super sports automobiles on the road, the Bugatti Veyron, has a panoramic top developed by KRD Sicherheit Technik GmbH. It was further transformed and coated using Momentive Performance Materials GmbH's AS4000 polydioxanone wet-coat technology to offer an extremely durable and weather-resistant roof. Polycarbonate glazing was utilized to produce Bugatti Veyron panoramic roof.

Schweiter Technologies AG is focused on creating, producing, and marketing machines and composite materials. The primary business unit of the company, 3A Composites, provides a variety of lightweight building materials used in displays, architecture, transportation, and other industries. Despite having a presence worldwide, Schweiter generates almost all of its revenue in the European market. In August 2017, To grow its composite business, Schweiter Technologies agreed to buy Athlone Extrusions, Ireland, a renowned producer of colored opaque multilayered sheeting made of plastic. Athlone produced sales of over 62 million euros in 2016. Athlone Extrusions has an approved enterprise value of 48 million euros (cash- and debt-free).

Key Companies in the Polycarbonate Glazing market include

- SABIC
- Brett Martin Plastic Sheets
- Guangdong Amuse Plastic Products Co., Limited
- Plazit Polygal
- MG Polyplast Industries Pvt. Ltd
- Palram Industries Ltd.

- Gallina

Polycarbonate Glazing Industry Developments

August 2017: To grow its composite business, Schweiter Technologies has agreed to buy Athlone Extrusions, Ireland, a renowned producer of colored opaque multilayered sheeting made of plastic. Athlone produced sales of over 62 million euros in 2016. Athlone Extrusions has an approved enterprise value of 48 million euros (cash- and debt-free).

2016: One of the fastest super sports automobiles on the road, the Bugatti Veyron, has a panoramic top developed by KRD Sicherheit Technik GmbH. In order to offer an extremely durable and weather-resistant roof, it was further transformed and coated using Momentive Performance Materials GmbH's AS4000 polydioxanone wet-coat technology. Polycarbonate glazing was utilized to produce Bugatti Veyron panoramic roof.

Pallet flow made of polycarbonate is frequently utilized as a circulation tracking system for deeper lane flow. It is made to be employed in a highly organized pattern and is extremely temperature resistant.

Polycarbonate Glazing Market Segmentation

Polycarbonate Glazing Application Outlook

- Windscreens
- Architectural glazing
- Illuminated signage and displays
- Roofing and skylights
- Sidelights
- Others

Polycarbonate Glazing End-User Outlook

- Commercial Construction
- Horticulture and agriculture
- Industrial Construction
- Institutional Construction
- Automotive
- Others

Polycarbonate Glazing Regional Outlook

- North America
 - US
 - Canada
- Europe
 - Germany
 - France
 - UK
 - Italy
 - Spain
 - Rest of Europe
- Asia-Pacific
 - China
 - Japan
 - India
 - Australia

- South Korea
- Australia
- Rest of Asia-Pacific
- Rest of the World
 - Middle East
 - Africa
 - Latin America

Table of Content:

Contents

1 Executive Summary

2 Scope Of The Report

2.1 Market Definition

2.2 Scope Of The Study

2.2.1 Research Objectives

2.2.2 Assumptions & Limitations

2.3 Markets Structure

3 Market Research Methodology

3.1 Research Process

3.2 Secondary Research

3.3 Primary Research

3.4 Forecast Model

4 Market Landscape

4.1 Five Forces Analysis

4.1.1 Threat Of New Entrants

4.1.2 Bargaining Power Of Buyers

4.1.3 Threat Of Substitutes

4.1.4 Segment Rivalry

4.2 Value Chain/Supply Chain Of Global Polycarbonate Glazing Market

5 Industry Overview Of Global Polycarbonate Glazing Market

5.1 Introduction

5.2 Growth Drivers

5.3 Impact Analysis

5.4 Market Challenges

5.5 Impact Analysis

6 Market Trends

6.1 Introduction

6.2 Growth Trends

6.3 Impact Analysis

7 Global Polycarbonate Glazing Market By Region

8 Global Polycarbonate Glazing Market By Application (Architectural Glazing, Skylights And Sidelights, Conservatory Roofing, Windscreens, Illuminated Signage And Displays, And Others)

9 Global Polycarbonate Glazing Market By End User (Warehouses, Factories, Automotive, Horticulture & Agriculture, Commercial Buildings, Hospitals, And Others)

10 Company Profiles

10.1 Brett Martin Plastic Sheets

10.1.1 Company Overview

10.1.2 Product/Business Segment Overview

10.1.3 Financial Updates

10.1.4 Key Developments

10.2 Access Plastics Ltd

10.2.1 Company Overview

10.2.2 Product/Business Segment Overview

10.2.3 Financial Updates

10.2.4 Key Developments

10.3 Palram Industries Ltd.

10.3.1 Company Overview

10.3.2 Product/Business Segment Overview

10.3.3 Financial Updates

10.3.4 Key Developments

10.4 Chi Mei Corporation

10.4.1 Company Overview

10.4.2 Product/Business Segment Overview

10.4.3 Financial Updates

10.4.4 Key Developments

10.5 Idemitsu Kosan Co

10.5.1 Company Overview

10.5.2 Product/Business Segment Overview

10.5.3 Financial Updates

10.5.4 Key Developments

10.6 Sheffield Plastics Inc.

10.6.1 Company Overview

10.6.2 Product/Business Segment Overview

10.6.3 Financial Updates

10.6.4 Key Developments

10.7 Webasto Thermo & Comfort UK Ltd

10.7.1 Company Overview

10.7.2 Product/Business Segment Overview

- 10.7.3 Financial Updates
- 10.7.4 Key Developments
- 10.8 Guangdong Amuse Plastic Products Co
- 10.8.1 Company Overview
- 10.8.2 Product/Business Segment Overview
- 10.8.3 Financial Updates
- 10.8.4 Key Developments
- 10.9 Haiyan Huashuaite Plastics Electric Appliances Co.
- 10.9.1 Company Overview
- 10.9.2 Product/Business Segment Overview
- 10.9.3 Financial Updates
- 10.9.4 Key Developments
- 10.10 Freeglass GmbH & Co. KG
- 10.10.1 Company Overview
- 10.10.2 Product/Business Segment Overview
- 10.10.3 Financial Updates
- 10.10.4 Key Developments
- 11 Conclusion

12 List Of Tables

- Table 1 World Population By Major Regions (2020 To 2030) (Million)
- Table 2 Global Polycarbonate Glazing Market: By Region, 2023-2032 (USD Million)
- Table 3 North America Polycarbonate Glazing Market: By Country, 2023-2032 (USD Million)
- Table 4 Europe Polycarbonate Glazing Market: By Country, 2023-2032 (USD Million)
- Table 5 Asia-Pacific Polycarbonate Glazing Market: By Country, 2023-2032 (USD Million)
- Table 6 RoW Polycarbonate Glazing Market: By Country, 2023-2032 (USD Million)
- Table 7 Global Polycarbonate Glazing By Application Market: By Regions, 2023-2032 (USD Million)
- Table 8 North America Polycarbonate Glazing By Application Market: By Country, 2023-2032 (USD Million)
- Table 9 Europe Polycarbonate Glazing By Application Market: By Country, 2023-2032 (USD Million)
- Table 10 Asia-Pacific Polycarbonate Glazing By Application Market: By Country, 2023-2032 (USD Million)
- Table 11 RoW Polycarbonate Glazing By Application Market: By Country, 2023-2032 (USD Million)
- Table 12 North America Polycarbonate Glazing For End User Market: By Country, 2023-2032 (USD Million)
- Table 13 Europe Polycarbonate Glazing For End User Market: By Country, 2023-2032 (USD Million)
- Table 14 Asia-Pacific Polycarbonate Glazing For End User Market: By Country, 2023-2032 (USD Million)
- Table 15 RoW Polycarbonate Glazing For End User Market: By Country, 2023-2032 (USD Million)
- Table 16 Global Polycarbonate Glazing For End User Market: By Region, 2023-2032 (USD Million)
- Table 17 North America Polycarbonate Glazing For End User Market: By Country, 2023-2032 (USD Million)
- Table 18 Europe Polycarbonate Glazing For End User Market: By Country, 2023-2032 (USD Million)
- Table 19 Asia-Pacific Polycarbonate Glazing For End User Market: By Country, 2023-2032 (USD Million)
- Table 20 RoW Polycarbonate Glazing For End User Market: By Country, 2023-2032 (USD Million)
- Table 21 RoW Polycarbonate Glazing For End User Market: By Country, 2023-2032 (USD Million)
- Table 22 Global Application Market: By Region, 2023-2032 (USD Million)
- Table 23 Global End User Market: By Region, 2023-2032 (USD Million)
- Table 24 North America Polycarbonate Glazing Market, By Country (USD Million)
- Table 25 North America Polycarbonate Glazing Market, By Application (Million USD)
- Table 26 North America Polycarbonate Glazing Market, By End User (Million USD)
- Table 27 Europe: Polycarbonate Glazing Market, By Country (USD Million)
- Table 28 Europe: Polycarbonate Glazing Market, By Application (USD Million)
- Table 29 Europe: Polycarbonate Glazing Market, By End User (USD Million)
- Table 30 Asia-Pacific: Polycarbonate Glazing Market, By Country (USD Million)
- Table 31 Asia-Pacific: Polycarbonate Glazing Market, By Application (USD Million)
- Table 32 Asia-Pacific: Polycarbonate Glazing Market, By End User (USD Million)
- Table 33 RoW: Polycarbonate Glazing Market, By Country (USD Million)
- Table 34 RoW Polycarbonate Glazing Market, By Application (USD Million)
- Table 35 RoW: Polycarbonate Glazing Market, By End User (USD Million)

13 List Of Figures

- FIGURE 1 Global Polycarbonate Glazing Market Segmentation
- FIGURE 2 Forecast Methodology
- FIGURE 3 Five Forces Analysis Of Global Polycarbonate Glazing Market
- FIGURE 4 Value Chain Of Global Polycarbonate Glazing Market
- FIGURE 5 Share Of Global Polycarbonate Glazing Market In 2020, By Country (In %)
- FIGURE 6 Global Polycarbonate Glazing Market, 2023-2032, (USD Billion)
- FIGURE 7 Sub-Segments Of End Users
- FIGURE 8 Global Polycarbonate Glazing Market Size By End User, 2020
- FIGURE 9 Share Of Global Polycarbonate Glazing Market By End User, 2023-2032
- FIGURE 10 Global Polycarbonate Glazing Market Size By Application, 2020
- FIGURE 11 Share Of Global Polycarbonate Glazing Market By Application, 2023-2032