

Polycarbonate Market Growth, Revenue Share Analysis, Company Profiles, and Forecast To 2030

Rising demand for spike temperature resistance is a key factor driving polycarbonate market revenue growth.

VANCOUVER, BC, CANADA, February 15, 2023 /EINPresswire.com/ -- The Global [Polycarbonate Market](#) size reached USD 21.50 Billion in 2021 and is expected to register a revenue CAGR of 5.6% during the forecast period, according to latest analysis by Emergen Research. Polycarbonate market revenue growth is driven by factors

such as rising demand for spike temperature resistance, flexibility & toughness in thin sections, growing demand from electric vehicles and the medical industry, and the development of bio-based polymers. Polycarbonates (PC) are a class of thermoplastic polymers with chemical structures that contain carbonate groups. Polycarbonates are strong, durable materials that are optically transparent in some grades. They are simple to work with, mold, and thermoform.

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Polycarbonate Market Size – USD 21.50 Billion in 2021, Market Growth – at a CAGR of 5.6%, Market Trends – Rising demand for polycarbonate from the electric vehicle industry”

Emergen Research



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There is an increasing need for spike temperature resistance and polycarbonate is suitable for usage in building and household items. Polycarbonate will not melt, shatter, or absorb heat at temperatures up to 1166 degrees Fahrenheit for several hours. The traditional glass melts at high temperatures and breaks easily, making it a safety hazard in many situations. Polycarbonate, in contrast to acrylic, retains its strength and transparency

even after being subjected to greater temperatures for longer. Polycarbonate preserves its properties over a wide range of temperatures, from -20 to 140 degrees Celsius. It has a glass transition temperature of around 147°C, and above 155°C it gradually softens and flows.

Standard polycarbonate plastics are not suitable for prolonged exposure to Ultraviolet (UV) light and may become brittle.

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During the current COVID-19 (coronavirus) pandemic, medical polycarbonates and other products that use a lot of plastic are becoming more important. There has been a rise in the need for polycarbonate in intravenous (IV) supplies and syringes. The market for medical polycarbonate is expected to grow quickly, with sales of fluid delivery and IV connection parts being the main drivers.

Some Key Highlights From the Report

Polycarbonate sheet segment accounted for a major revenue share in 2021. Polycarbonate sheets have substituted glass & acrylic in several applications. These sheets come in an assortment of grades and thicknesses. Compared to glass, they are significantly lighter, more robust, and immune to breaking and cracking. Traditionally, this material was mainly utilized for commercial projects owing to its prohibitive cost.

Injection molding segment accounted for a moderate revenue share in 2021. The most prevalent method for creating polycarbonate and polycarbonate blend components is injection molding. In order to reduce polycarbonate's viscosity, it is routinely heated to high temperatures. In this procedure, the polymer melt is forced into a mold under tremendous pressure. When the mold cools, it imparts the desired shape and qualities to the molten polymer. This process is typically used to manufacture polycarbonate bottles and plates among others.

On April 28, 2021, SABIC, a global leader in the chemical sector, announced its partnership with NUDEC, S.A., a pioneer in the production of transparent plastic sheets for a wide range of industries including construction, and machinery protection. NUDEC, headquartered in Barcelona, Spain, will utilize SABIC's LEXAN Polycarbonate (PC) resin derived from approved renewable feedstock in a variety of end products for these industries.

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Radical Highlights of the Polycarbonate Market Report:

Comprehensive overview of the Polycarbonate market along with analysis of the changing dynamics of the market

Growth Assessment of various market segments throughout the forecast period

Regional and global analysis of the market players, including their market share and global position

Insightful information for the new entrants willing to enter the market

Details and insights about business expansion strategies, product launches, and other

collaborations

The report incorporates advanced analytical tools such as SWOT analysis, Porter's Five Forces Analysis, feasibility analysis, and investment return analysis

The leading market contenders listed in the report are:

Covestro AG

SABIC

Lotte Chemical Corporation

Tejin Limited

Mitsubishi Engineering Plastics Corporation

Trinseo

Lone Star Chemical

CHIMEI

Entec Polymers

TP Company

LG Chem

Others

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<https://www.emergenresearch.com/industry-report/polycarbonate-market>

Segments Covered in this report are:

Type Outlook (Revenue, USD Billion; Volume, Kilo Tons; 2019–2030)

Plates

Sheets

Films

Foil

Strip

Others

Grades Outlook (Revenue, USD Billion; Volume, Kilo Tons; 2019–2030)

Injection Molding

Extrusion

Others

Application Outlook (Revenue, USD Billion; Volume, Kilo Tons; 2019–2030)

Electronics & Electrical

Automotive

Packaging

Consumer Goods

Medical Devices

Construction

Optical Media

Regional Segmentation;

North America (U.S., Canada)

Europe (U.K., Italy, Germany, France, Rest of EU)

Asia Pacific (India, Japan, China, South Korea, Australia, Rest of APAC)

Latin America (Chile, Brazil, Argentina, Rest of Latin America)

Middle East & Africa (Saudi Arabia, U.A.E., South Africa, Rest of MEA)

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