Global Polycarbonate Market, by Application (Automotive, Building and Construction, Electrical and Electronics, Consumer Goods, Packaging, Medical Devices and Others) and Region till 2023

Polycarbonate is a thermoplastic polymer that occurs in a transparent crystalline form. The material exhibits high impact strength and great toughness at low temperatures. In addition to this, it is moisture-resistant, has better heat, electrical and chemical resistance, and exhibits good oxidative and thermal stability. Polycarbonate can be easily processed through the usual injection molding and extrusion techniques in order to produce components with excellent dimensional stability. The major end-use industries served by the polycarbonate market are automotive, aerospace, railways, electronics, construction, and medical, among others. DMC is a chemical intermediate for manufacturing polycarbonate. Polycarbonate as an application accounts for over 50% of the overall DMC consumption. Polycarbonate plastic is a highly versatile type of thermoplastic that is widely used in the automotive and electronics industries, apart from the medical, construction, and agriculture industries. These applications require critical characteristics such as light weight, high durability, better heat and tear resistance, and easy processability. This is most likely to boost the demand for polycarbonate in the automotive and electronics industries.

The global plastic materials market is expected to grow at a considerably high CAGR to reach USD 1 trillion by the end of 2023. This, in turn, is expected to boost the demand for polycarbonate during the review period. Polycarbonate accounts for a substantial share of the global plastic materials market and its dominance is likely to increase during the forecast period. This can mainly be attributed to the high growth in demand from major end-use industries such as automotive, electronics, and consumer goods. The wide scope of applications for polycarbonate in various flourishing end-use industries such as medical devices, packaging, and construction is fueling the growth of the market. Globally, polycarbonate material is used in a wide range of structural, aesthetic, and safety applications, especially in the automotive industry. This material lends itself to innovation in automotive parts and other internal components such as glazing, front-end body panels, and bumper fascia. Moreover, in the electrical and electronics industry, flame retardance and better dielectric properties have led to the use of polycarbonate in a vast number of consumer electronics. This is expected to drive the growth of the market during the forecast period. However, volatile raw materials prices are anticipated to limit growth during the forecast period.

Global Polycarbonate Market Share, by Application (%)
Regional Analysis

The global polycarbonate market has been studied with respect to five major regions—North America, Asia Pacific, Europe, the Middle East and Africa, and Latin America. The market in Asia Pacific is estimated to dominate the global market with the largest share. This can be attributed to the rapid industrialization in the region during the past few years, along with favorable government policies and funding for infrastructure and transportation. India, Japan, South Korea, Malaysia, and China are the major contributors to the growth of this regional market. Additionally, changing lifestyles, growing disposable incomes, and shifting consumer trends are favoring the automotive and packaging industries in the region, which may fuel the growth of the regional market. North America is expected to be the second-largest market, with the U.S. as the largest country-level market due to a steady rise in the use of polycarbonate materials in reconstruction activities and the automotive and packaging industries. Europe is also a significant market for polycarbonate, with the markets in the U.K., France, Germany, Italy, and Belgium leading the region. The growth of the European market can be attributed to the use of these materials in automotive and other industrial applications. The markets in the Middle East and Africa and Latin America account for a relatively smaller share of the market; however, these markets are likely to grow in the coming years.

Segmentation

The global polycarbonate market has been segmented on the basis of application and region. Based on application the market has been segmented into automotive, building and construction, electrical and electronics, consumer goods, packaging, medical devices, and others.

The market has also been studied with regard to five major regions—North America, Asia Pacific, Europe, the Middle East and Africa, and Latin America.

Key Players

The prominent players in the global polycarbonate market are Covestro (Germany), Teijin Limited (Japan), Mitsubishi Engineering Plastics Corp. (Japan), LG Chemicals (South Korea), EVONIK INDUSTRIES AG (Germany), Formosa (U.S.), Asahi Kasei Chemical Corporation (Japan), Idemitsu Kosan Co. Ltd. (Japan), SABIC (Saudi Arabia), and Bayer AG (Germany), among others.

Intended Audience

- Polycarbonate manufacturers
- Traders and distributors of polycarbonate
- Research and development institutes
- Potential investors
- Raw material suppliers
- Nationalized laboratories
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