

China Carbon Fiber Reinforced Polycarbonate Market Research Report Forecast to 2028

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Report description:

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Market Overview

Carbon fibers (CFs) have been widely used as reinforcement materials in composite manufacturing due to their exceptional properties such as high load-bearing capacity, high fatigue strength, X-ray transparency, flame-retardant, good electrical conductivity, and low thermal expansion. Some of the technologies used to produce CFRP include prepreg compressing molding, autoclave technology, winding methods, blowing methods, resin transfer molding, wet pressing, braiding, others.

China's carbon fiber reinforced market is expected to register a CAGR of 7.21% to reach USD 87,944.3 thousand by the end of 2028. Carbon fiber reinforced polymer (CFRP) is a material consisting of several constituents: a base or carrier substance called matrix, and a second reinforcing component, the carbon fiber, which is embedded in the matrix. For carbon fiber reinforced polycarbonate, the resin material of polycarbonate is used.

CFRP exhibits high load-bearing capacity, high fatigue strength, X-ray transparency, and low thermal expansion. CFRP is up to five times lighter than steel and has only about 60% of the weight of aluminum. The demand for carbon fiber reinforced polycarbonate is expected to witness significant growth on account of its use in the aerospace and automotive industry. The expansion of these industries along with huge investments is expected to drive the market in China. Moreover, the growing medical sector in the country, coupled with the extensive use of carbon fiber reinforced polycarbonate, is likely to create new growth opportunities for the players in this market.

The key factor driving the growth of the China carbon fiber reinforced market is the growing demand from key end-users such as the aerospace, automotive, and electrical & electronics industries. The expansion of these industries along with huge investments is expected to drive the market in China. Moreover, the growing medical sector in the country, coupled with the extensive use of carbon fiber reinforced polycarbonate, is likely to create new growth opportunities for the players in this market.

Market Segmentation

China's carbon fiber reinforced market has been segmented by end-use. Based on end-use, the market has been segmented into aerospace, automotive, sports & leisure, electrical & electronics, medical, and others. Among these, the aerospace segment

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accounted for the largest share in the China carbon fiber reinforced market. This growth is mainly attributed to the growing demand for Carbon fiber reinforced polycarbonate in the interior and exterior structural components of aircrafts such as tubing, by-pass ducts, aircraft wings, etc.

Major Players

SABIC (Saudi Arabia), Merck KGAA (Germany), Covestro (Germany), Lanxess (Germany), Goodfellow (England), Julier (Xiamen) Technology CO., Ltd (China), and LG Chem (South Korea) are the key players operating in the China carbon fiber reinforced polycarbonate market.

COVID 19 Impacts

We are continuously tracking the impact of the COVID-19 pandemic on various industries and verticals within all domains. Our research reports include the same and help you understand the drop and rise, owing to the impact of COVID-19 on the industries. Also, we help you to identify the gap between the demand and supply of your interested market. Moreover, the report helps you with the analysis, amended government regulations, and many other useful insights.

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