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Global Pultruded Carbon Plates for Wind Turbine Blades Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Pultruded Carbon Plates for Wind Turbine Blades market size was valued at US$ 634 million in 2025 and is forecast to a readjusted size of US$ 974 million by 2032 with a CAGR of 6.4% during review period.

In 2025, global Pultruded Carbon Plates for Wind Turbine Blades production reached approximately 40 k tons, with an average global market price of around US$15,400 per ton. Pultruded carbon plates for wind turbine blades are a type of composite material plate that is formed through the pultrusion process and is specifically designed for use in wind turbine blades. The main reinforcing material is carbon fiber. Pultrusion is a manufacturing technique for composite materials. In this process, continuous fiber reinforcements, usually carbon fibers in the case of pultruded carbon plates, are pulled through a resin bath. The resin, such as epoxy resin, impregnates the fibers thoroughly. Then, the resin-impregnated fibers are drawn through a heated die with a specific cross-sectional shape.

The key driver of global market demand for pultruded carbon plates for wind turbine blades comes from the large-scale development of offshore wind power and the technological trend of large-megawatt and ultra-long wind turbine blades. With its high modulus and lightweight properties, this material has become a key material for the core structural parts of high-power wind turbine blades, and the implementation of global renewable energy policies and carbon neutrality targets provides stable underlying support for the industry’s long-term development. Market competition focuses on the consistency of material properties, production process stability and large-scale mass production capacity. Long technical certification cycles, high downstream customer

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cooperation stickiness, and raw material supply chain control thresholds form the core market entry barriers. Global production capacity layout is highly matched with the regional agglomeration of high-end wind power industry chain links. Cyclical fluctuations in upstream raw material prices are the core variable affecting industry profitability, and the industry's overall development is deeply bound to the global offshore wind power progress and energy transition rhythm.

This report is a detailed and comprehensive analysis for global Pultruded Carbon Plates for Wind Turbine Blades market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Pultruded Carbon Plates for Wind Turbine Blades market size and forecasts, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Pultruded Carbon Plates for Wind Turbine Blades market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Pultruded Carbon Plates for Wind Turbine Blades market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Pultruded Carbon Plates for Wind Turbine Blades market shares of main players, shipments in revenue ($ Million), sales quantity (Tons), and ASP (US$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Pultruded Carbon Plates for Wind Turbine Blades

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To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Pultruded Carbon Plates for Wind Turbine Blades market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ZOLTEK (Toray), Aosheng Technologies, Weihai Guangwei Composites, Jilin Guoxing Composite Materials, Hexcel, Exel Composites, Gurit, R?chling, Zhejiang Zhenshi New Materials, Chongqing Fengdu New Materials, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Pultruded Carbon Plates for Wind Turbine Blades market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Epoxy Resin Based

Polyurethane Based

Others

Market segment by Carbon Fiber Content

Carbon Fiber Content ? 65%

Carbon Fiber Content > 65%

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Market segment by Thickness

Thickness 5mm

Market segment by Application

Offshore Wind Power

Onshore Wind Power

Major players covered

ZOLTEK (Toray)

Aosheng Technologies

Weihai Guangwei Composites

Jilin Guoxing Composite Materials

Hexcel

Exel Composites

Gurit

R?chling

Zhejiang Zhenshi New Materials

Chongqing Fengdu New Materials

Zhongcai Technology

Jilin Chemical Fibre

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Swancor Advanced Materials

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Pultruded Carbon Plates for Wind Turbine Blades product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Pultruded Carbon Plates for Wind Turbine Blades, with price, sales quantity, revenue, and global market share of Pultruded Carbon Plates for Wind Turbine Blades from 2021 to 2026.

Chapter 3, the Pultruded Carbon Plates for Wind Turbine Blades competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Pultruded Carbon Plates for Wind Turbine Blades breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales

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quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Pultruded Carbon Plates for Wind Turbine Blades market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Pultruded Carbon Plates for Wind Turbine Blades.

Chapter 14 and 15, to describe Pultruded Carbon Plates for Wind Turbine Blades sales channel, distributors, customers, research findings and conclusion.

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