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Global Pultruded Carbon Plates for Wind Turbine Blades Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Pultruded Carbon Plates for Wind Turbine Blades market size is expected to reach $ 974 million by 2032, rising at a market growth of 6.4% CAGR during the forecast period (2026-2032).

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 cooperation stickiness, and raw material supply chain control thresholds form the core

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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 studies the global Pultruded Carbon Plates for Wind Turbine Blades production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Pultruded Carbon Plates for Wind Turbine Blades and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Pultruded Carbon Plates for Wind Turbine Blades that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Pultruded Carbon Plates for Wind Turbine Blades total production and demand, 2021-2032, (Tons)
Global Pultruded Carbon Plates for Wind Turbine Blades total production value, 2021-2032, (USD Million)
Global Pultruded Carbon Plates for Wind Turbine Blades production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)
Global Pultruded Carbon Plates for Wind Turbine Blades consumption by region & country, CAGR, 2021-2032 & (Tons)
U.S. VS China: Pultruded Carbon Plates for Wind Turbine Blades domestic production, consumption, key domestic manufacturers and share
Global Pultruded Carbon Plates for Wind Turbine Blades production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)
Global Pultruded Carbon Plates for Wind Turbine Blades production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)
Global Pultruded Carbon Plates for Wind Turbine Blades production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Pultruded Carbon Plates for Wind Turbine Blades market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ZOLTEK (Toray),

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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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Pultruded Carbon Plates for Wind Turbine Blades market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Tons) and average price (US$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Pultruded Carbon Plates for Wind Turbine Blades Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Pultruded Carbon Plates for Wind Turbine Blades Market, Segmentation by Type:

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Epoxy Resin Based

Polyurethane Based

Others

Global Pultruded Carbon Plates for Wind Turbine Blades Market, Segmentation by Carbon Fiber Content:

Carbon Fiber Content ? 65%

Carbon Fiber Content > 65%

Global Pultruded Carbon Plates for Wind Turbine Blades Market, Segmentation by Thickness:

Thickness 5mm

Global Pultruded Carbon Plates for Wind Turbine Blades Market, Segmentation by Application:

Offshore Wind Power

Onshore Wind Power

Companies Profiled:

ZOLTEK (Toray)

Aosheng Technologies

Weihai Guangwei Composites

Jilin Guoxing Composite Materials

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Hexcel

Exel Composites

Gurit

R?chling

Zhejiang Zhenshi New Materials

Chongqing Fengdu New Materials

Zhongcai Technology

Jilin Chemical Fibre

Swancor Advanced Materials

Key Questions Answered:
1. How big is the global Pultruded Carbon Plates for Wind Turbine Blades market?
2. What is the demand of the global Pultruded Carbon Plates for Wind Turbine Blades market?
3. What is the year over year growth of the global Pultruded Carbon Plates for Wind Turbine Blades market?
4. What is the production and production value of the global Pultruded Carbon Plates for Wind Turbine Blades market?
5. Who are the key producers in the global Pultruded Carbon Plates for Wind Turbine Blades market?
6. What are the growth factors driving the market demand?

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