

Global Filament Winding Direct Roving Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Filament Winding Direct Roving market size is expected to reach \$ 1683 million by 2032, rising at a market growth of 4.5% CAGR during the forecast period (2026-2032).

Filament winding direct roving is a single-end, untwisted continuous fiberglass roving produced by gathering glass filaments directly, applying a resin-compatible sizing system and winding the strand onto packages. It is specifically designed for filament winding processes and requires stable tension, smooth unwinding, low fuzz, fast wet-out and strong compatibility with resin systems such as unsaturated polyester, vinyl ester, epoxy, phenolic and selected polyurethane resins. Key upstream materials include silica sand, pyrophyllite, limestone, boron minerals, soda ash, kaolin, alumina, silane coupling agents, epoxy or polyurethane film formers, lubricants and resin-compatible sizing systems. Major downstream applications include FRP pipes, chemical storage tanks, pressure vessels, hydrogen cylinders, CNG cylinders, desalination pipes, oil & gas pipelines, corrosion-resistant equipment, fire-extinguisher cylinders, sports goods and selected aerospace composite structures.

In 2025, global filament winding direct roving production reached approximately 1.3 million tons, with an average global market price is \$900 per ton.

From a global industry perspective, filament winding direct roving is a key process-oriented material in continuous glass-fiber-reinforced composites. Compared with assembled roving, direct roving generally offers more stable unwinding tension, lower fuzz, better fiber-orientation consistency and a package structure better suited to high-speed continuous feeding. Compared with chopped fiberglass, its continuous-fiber form is more suitable for hollow rotational components that carry hoop, axial and helical

loads. In filament winding, continuous reinforcement fibers are wound around a mandrel at controlled angles, with control over fiber orientation, tension and resin content to form strong and lightweight composite structures. Therefore, the value of filament winding direct roving is not limited to fiberglass strength; it directly affects winding stability, resin wet-out, interlaminar bonding, burst strength, fatigue life and long-term corrosion resistance.

In terms of industry trends, filament winding direct roving is moving toward faster wet-out, lower fuzz, fewer breaks, uniform tension, higher strength, higher glass loading, multi-resin compatibility and stronger automation compatibility. Traditional products focused mainly on tex specification, tensile strength and cost, while current applications in pipes, tanks, pressure vessels and hydrogen cylinders place greater emphasis on smooth unwinding, wet-out speed, abrasion resistance, tension stability, resin-interface bonding and batch consistency. Product references describe filament winding direct roving as compatible with UP, VE, EP, PU and PF resin systems and used in FRP pipes of various diameters, high-pressure petroleum pipes, pressure vessels, storage tanks and insulating tubes. At the same time, high-pressure epoxy winding, chemical-resistant pipes and tanks, desalination pipelines, CNG cylinders and hydrogen composite cylinders are raising requirements for fatigue performance, hydrothermal aging resistance, interface strength and stable high-tension winding, pushing products from general direct roving toward high-performance winding-specific grades.

The main growth drivers come from three areas. First, FRP pipes, storage tanks, chemical corrosion-resistant equipment, water and wastewater systems, oil and gas transmission, and marine engineering continue to require lightweight, corrosion-resistant and high-strength composite materials, supporting baseline demand for filament winding direct roving. Second, pressure vessels, CNG cylinders, hydrogen cylinders, high-pressure pipes, and fire-protection or municipal pipe networks are raising requirements for burst strength, fatigue life and long-term reliability, pushing rovings toward higher strength, faster wet-out and stronger consistency. Third, downstream filament winding manufacturers increasingly focus on automation efficiency, continuous unwinding stability, resin penetration speed, defect control and batch stability, turning filament winding direct roving from ordinary fiberglass roving into a critical intermediate material affecting composite structural strength, production efficiency and long-term service safety.

This report studies the global Filament Winding Direct Roving production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Filament Winding Direct Roving 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 Filament Winding Direct Roving that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Filament Winding Direct Roving total production and demand, 2021-2032, (Kilotons)

Global Filament Winding Direct Roving total production value, 2021-2032, (USD Million)

Global Filament Winding Direct Roving production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Filament Winding Direct Roving consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Filament Winding Direct Roving domestic production, consumption, key domestic manufacturers and share

Global Filament Winding Direct Roving production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Filament Winding Direct Roving production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Filament Winding Direct Roving production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Filament Winding Direct Roving 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 China Jushi, Praana Group (Owens Corning), Saint-Gobain Vetrotex, Nippon Electric Glass, Taishan Fiberglass, CPIC, AGY Holding Corp., Valmiera Glass Group, Johns Manville, Taiwan Glass Group, 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 Filament Winding Direct Roving market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (Kilotons) 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 Filament Winding Direct Roving Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Filament Winding Direct Roving Market, Segmentation by Type:

Unsaturated Polyester Resin Matrix

Vinyl Ester Resin Matrix

Epoxy Resin Matrix

Others

Global Filament Winding Direct Roving Market, Segmentation by Glass Composition:

E-glass

ECR-glass

AR-glass

Others

Global Filament Winding Direct Roving Market, Segmentation by Application:

Pipes

Tanks and Chemical Storage

Pressure Vessels and Gas Cylinders

Industrial Equipment

Others

Companies Profiled:

China Jushi

Praana Group (Owens Corning)

Saint-Gobain Vetrotex

Nippon Electric Glass

Taishan Fiberglass

CPIC

AGY Holding Corp.

Valmiera Glass Group

Johns Manville

Taiwan Glass Group

3B Fibreglass

Shandong Fiberglass Group

Key Questions Answered:

1. How big is the global Filament Winding Direct Roving market?
2. What is the demand of the global Filament Winding Direct Roving market?
3. What is the year over year growth of the global Filament Winding Direct Roving market?
4. What is the production and production value of the global Filament Winding Direct Roving market?
5. Who are the key producers in the global Filament Winding Direct Roving market?
6. What are the growth factors driving the market demand?

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