

Global Filament Winding Direct Roving 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 Filament Winding Direct Roving market size was valued at US\$ 1232 million in 2025 and is forecast to a readjusted size of US\$ 1683 million by 2032 with a CAGR of 4.5% during review period.

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 is a detailed and comprehensive analysis for global Filament Winding Direct Roving 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 Filament Winding Direct Roving market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Filament Winding Direct Roving market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Filament Winding Direct Roving market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Filament Winding Direct Roving market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), 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 Filament Winding Direct Roving

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 Filament Winding Direct Roving 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 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.

Market Segmentation

Filament Winding Direct Roving 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

Unsaturated Polyester Resin Matrix

Vinyl Ester Resin Matrix

Epoxy Resin Matrix

Others

Market segment by Glass Composition

E-glass

ECR-glass

AR-glass

Others

Market segment by Application

Pipes

Tanks and Chemical Storage

Pressure Vessels and Gas Cylinders

Industrial Equipment

Others

Major players covered

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

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 Filament Winding Direct Roving product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Filament Winding Direct Roving, with price, sales quantity, revenue, and global market share of Filament Winding Direct Roving from 2021 to 2026.

Chapter 3, the Filament Winding Direct Roving competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Filament Winding Direct Roving 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 quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Filament Winding Direct Roving 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 Filament Winding Direct Roving.

Chapter 14 and 15, to describe Filament Winding Direct Roving sales channel, distributors, customers, research findings and conclusion.

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