

Global Filament Winding Direct Roving Market Growth 2026-2032

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Abstracts

The global Filament Winding Direct Roving market size is predicted to grow from US\$ 1171 million in 2025 to US\$ 1626 million in 2032; it is expected to grow at a CAGR of 4.8% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "Filament Winding Direct Roving Industry Forecast" looks at past sales and reviews total world Filament Winding Direct Roving sales in 2025, providing a comprehensive analysis by region and market sector

of projected Filament Winding Direct Roving sales for 2026 through 2032. With Filament Winding Direct Roving sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Filament Winding Direct Roving industry.

This Insight Report provides a comprehensive analysis of the global Filament Winding Direct Roving landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Filament Winding Direct Roving portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Filament Winding Direct Roving market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Filament Winding Direct Roving and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Filament Winding Direct Roving.

This report presents a comprehensive overview, market shares, and growth opportunities of Filament Winding Direct Roving market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Unsaturated Polyester Resin Matrix

Vinyl Ester Resin Matrix

Epoxy Resin Matrix

Others

Segmentation by Glass Composition:

E-glass

ECR-glass

AR-glass

Others

Segmentation by Application:

Pipes

Tanks and Chemical Storage

Pressure Vessels and Gas Cylinders

Industrial Equipment

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Filament Winding Direct Roving market?

What factors are driving Filament Winding Direct Roving market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Filament Winding Direct Roving market opportunities vary by end market size?

How does Filament Winding Direct Roving break out by Type, by Application?

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