

Global Thermoplastic 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 Thermoplastic Direct Roving market size was valued at US\$ 2975 million in 2025 and is forecast to a readjusted size of US\$ 4526 million by 2032 with a CAGR of 6.4% during review period.

Thermoplastic direct roving is an untwisted continuous glass fiber roving treated with sizing systems compatible with thermoplastic resins such as PP, PA, PBT, PET, PC, ABS and AS. It is mainly used in long-fiber reinforced thermoplastics, LFT, LFRT, GMT, twin-screw extrusion, injection molding, extrusion molding and thermoplastic composite reinforcement. Key upstream materials include silica sand, pyrophyllite, limestone, boron minerals, soda ash, kaolin, alumina, E-glass/ECR-glass formulations, silane-based coupling agents, polyurethane-based sizing and thermoplastic-compatible sizing systems. Major downstream applications include automotive lightweight parts, electrical and electronic housings, home appliances, rail transit, construction profiles, industrial structural components, sports and leisure products, and recyclable composite materials.

In 2025, global thermoplastic direct roving production reached approximately 2.8 million tons, with an average global market price is \$1,000 per ton.

From a global industry perspective, thermoplastic direct roving is a key base reinforcement for glass-fiber-reinforced thermoplastic composites. Compared with thermoset direct roving, thermoplastic direct roving places stronger emphasis on fast wet-out in molten thermoplastic resin, interfacial compatibility, fiber dispersion and mechanical performance after injection molding or compression molding. Compared with chopped fiberglass, direct roving can retain longer fiber length in LFT, D-LFT and CFRT processes, improving impact performance, stiffness and structural load-bearing

capability. Johns Manville defines direct roving as single-end roving and notes that it can be used to reinforce thermoplastic compounds such as polypropylene and polyamide; in the LFT process, roving strands are rapidly impregnated through pultrusion, cooled and then cut into specified-length long-fiber thermoplastic pellets.

In terms of industry trends, thermoplastic direct roving is moving toward faster wet-out, higher fiber-length retention, lower fuzz, fewer breaks, lower static, resin-specific sizing, high-heat polymer compatibility and stronger automation compatibility. Traditional fiberglass roving focused mainly on tex, strength and price, while thermoplastic direct roving is more strongly evaluated by continuous processing stability in twin-screw extrusion, pultrusion impregnation, D-LFT in-line compounding, thermo-compression molding, tape placement and organosheet production. Johns Manville states that direct roving for structural thermoplastics is used to produce tapes, woven fabrics and non-crimp fabrics, and is treated with special sizing for compatibility with PP, PA or high-heat polymers. Product references for LFT direct roving also describe compatibility with LFT-G and LFT-D processes and resin systems such as PP, PA, TPU and PET.

The main growth drivers come from three areas. First, automotive lightweighting, metal replacement, modular structural parts and electric vehicles are increasing demand for high-stiffness, high-impact and recyclable thermoplastic composites, supporting applications in front-end modules, underbody shields, seat structures, instrument-panel carriers, battery-pack components and semi-structural parts. Second, LFT, D-LFT, GMT, CFRT and thermoplastic tape processes offer short molding cycles, weldability, recyclability and suitability for automated production, increasing downstream demand for stable feeding, fast wet-out and low-defect fiberglass direct roving. Third, growth in electrical and electronics, industrial equipment, rail transit, home appliances and high-heat engineering plastics is turning thermoplastic direct roving from a general reinforcement input into a critical intermediate material affecting strength, toughness, dimensional stability, processing efficiency and batch consistency in thermoplastic composites.

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

Global Thermoplastic 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 Thermoplastic 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 Thermoplastic 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 Thermoplastic 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 Thermoplastic 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

Thermoplastic 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

PP-compatible Direct Roving

PA-compatible Direct Roving

PET-compatible Direct Roving

Others

Market segment by Glass Composition

E-glass

ECR-glass

AR-glass

Others

Market segment by Linear Density

Below 1200tex

1200?2400tex

2400tex and Above

Market segment by Application

Construction and Infrastructure

Pipes and Tanks

Transportation

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

Sichuan Weibo New Material Group

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

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

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

Chapter 4, the Thermoplastic 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 Thermoplastic 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 Thermoplastic Direct Roving.

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

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