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# Reinforced Green Tire Cord Fabric Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Material Type (Recycle PET, Recycle Nylon 66, Recycle Aramid, Others), By Application (Passenger Car, Light Commercial Vehicle, Medium & Heavy Commercial Vehicle, Two Wheeler, Three Wheeler, Others), By Distribution Channel (Direct Vs Indirect), By Region & Competition, 2021-2031F

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## Abstracts

The Global Reinforced Green Tire Cord Fabric Market is projected to expand from USD 1.47 Billion in 2025 to USD 2.58 Billion by 2031, registering a compound annual growth rate (CAGR) of 9.83%. This high-performance textile reinforcement, crafted from bio-based, recycled, or sustainably sourced fibers such as polyester and nylon, is engineered to stabilize tire structures while minimizing environmental footprints. The market's growth is primarily fueled by stringent government regulations limiting carbon emissions and the automotive sector?s rapid shift toward electric vehicles. This transition demands lightweight tires with reduced rolling resistance to maximize battery range, a requirement further bolstered by the industry's dedication to the circular economy. For instance, the U.S. Tire Manufacturers Association reported in 2024 that 79% of end-of-life tires were utilized by sustainable end-use markets, highlighting a verified shift toward sustainability that drives the uptake of green upstream components.

However, a significant barrier impeding market expansion remains the elevated production costs and technical complexities associated with processing bio-based fibers. Manufacturing these materials to match the tensile strength and thermal

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durability of conventional petrochemical options without compromising safety presents a substantial challenge. Consequently, the difficulty in achieving necessary performance standards while managing the financial implications of advanced processing continues to hinder the broader adoption of reinforced green tire cord fabrics alongside the growing demand.

**Market Driver**

The rapid increase in electric vehicle (EV) production acts as a major catalyst for the Global Reinforced Green Tire Cord Fabric Market, fundamentally reshaping technical specifications for tire reinforcement. Because EVs place significantly higher stress on tires due to battery weight and instant torque, they require high-load reinforced fabrics that uphold structural integrity without increasing mass. This shift necessitates the use of lightweight hybrid cord technologies specifically designed to reduce rolling resistance, a crucial factor for extending battery range. According to the International Energy Agency's 'Global EV Outlook 2024' published in April 2024, electric car sales surged to nearly 14 million in 2023, marking a robust 35% year-on-year increase that directly intensifies the demand for specialized, high-performance tire cords.

Concurrently, the industry is expediting its transition toward bio-based and recycled reinforcement materials to reduce reliance on volatile fossil fuel supply chains and adhere to circular economy objectives. Manufacturers are increasingly replacing traditional nylon and polyester with fibers sourced from recycled PET bottles and bio-polymers to lower the tire carcass's carbon footprint. For example, Bridgestone?s 'Bridgestone 3.0 Journey 2024 Integrated Report' from July 2024 noted that the company reached 39.9% utilization of recycled and renewable resources, achieving its 2026 goal ahead of time. Supporting this demand, Indorama Ventures reported in their 'Sustainability Report 2023' (February 2024) that they recycled over 300,000 tons of post-consumer waste, ensuring a scalable supply of recycled fibers for green tire cord applications.

**Market Challenge**

The high production costs and technical complexities involved in processing bio-based fibers present a major obstacle to the growth of the Global Reinforced Green Tire Cord Fabric Market. Manufacturing these sustainable reinforcements to equal the rigorous tensile strength and thermal durability standards of traditional petrochemical materials necessitates advanced, capital-intensive technologies. These elevated operational expenses result in a premium pricing structure for green tire cords. Within a highly price-

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sensitive automotive supply chain, this cost disparity deters widespread adoption, especially among mass-market tire manufacturers who operate on narrow profit margins and are reluctant to incur additional raw material costs without assured returns.

This economic hurdle is further intensified by contracting demand in key uptake sectors like the Original Equipment (OE) market, which typically drives the integration of new sustainable technologies. According to the U.S. Tire Manufacturers Association, Original Equipment tire shipments were projected to fall by 2.8 million units in 2025 compared to the prior year. This reduction in OE volume compels automakers to favor cost reduction over the inclusion of premium components, thereby directly stalling the momentum of green tire cord fabric adoption as manufacturers postpone the transition to expensive, eco-friendly alternatives to preserve financial stability.

**Market Trends**

A critical trend gaining traction is the widespread elimination of Resorcinol-Formaldehyde (RF) adhesion systems, spurred by increasing regulatory scrutiny regarding toxic chemical exposure during manufacturing. Tire cord producers are aggressively commercializing bio-based, non-toxic dipping technologies that preserve bonding performance without the health risks linked to traditional phenolic resins. This transition is rapidly advancing from niche pilot programs to mass-market scalability as major industry players prioritize worker safety and regulatory compliance, specifically concerning Substances of Very High Concern (SVHC). Highlighting this shift, Michelin announced in its '100M Tires with Formaldehyde-Free Araminolic Resin' update in June 2025 that it successfully produced over 100 million tires using its proprietary formaldehyde-free ResiCare resin, confirming the industrial viability of safer chemical alternatives.

Simultaneously, the market is executing a strategic pivot toward certified mass balance approaches to integrate diverse circular feedstocks beyond simple recycled PET. Manufacturers are utilizing third-party verified chains of custody to incorporate bio-circular materials, such as silica derived from rice husk ash and recycled steel, into the tire reinforcement matrix. This methodology guarantees traceability and facilitates the gradual increase of sustainable content within high-volume production lines, thereby circumventing the technical barriers associated with segregation. As evidence of this momentum, Continental?s 'More Sustainable Tires' press release in June 2025 reported that the share of renewable and recycled materials in the company?s tire production averaged 26% in 2024, reflecting the operational success of scaling these complex material streams through mass balance certification.

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## Key Market Players

Kordsa Teknik Tekstil AS

Indorama Ventures Public Company Limited

SRF Ltd.

Hyosung Corporation

Kolon Industries Inc.

Teijin Ltd.

Toray Industries Inc.

Century Enka Ltd.

Shinkong Synthetic Fibers Corporation

Hengli Group

## Report Scope

In this report, the Global Reinforced Green Tire Cord Fabric Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Reinforced Green Tire Cord Fabric Market, By Material Type

Recycle PET

Recycle Nylon 66

Recycle Aramid

Others

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Reinforced Green Tire Cord Fabric Market, By Application

- Passenger Car
- Light Commercial Vehicle
- Medium & Heavy Commercial Vehicle
- Two Wheeler
- Three Wheeler
- Others

Reinforced Green Tire Cord Fabric Market, By Distribution Channel

- Direct Vs Indirect

Reinforced Green Tire Cord Fabric Market, By Region

- North America
  - United States
  - Canada
  - Mexico
- Europe
  - France
  - United Kingdom
  - Italy
  - Germany

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Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

**Competitive Landscape**

Company Profiles: Detailed analysis of the major companies present in the Global Reinforced Green Tire Cord Fabric Market.

**Available Customizations:**

Global Reinforced Green Tire Cord Fabric Market report with the given market data,

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TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

**Company Information**

Detailed analysis and profiling of additional market players (up to five).

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