

# Global Vehicle Airbag Yarn 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 Vehicle Airbag Yarn market size was valued at US\$ 1070 million in 2025 and is forecast to a readjusted size of US\$ 1185 million by 2032 with a CAGR of 1.3% during review period.

Vehicle Airbag Yarns are high-strength fiber materials used in the manufacture of automotive airbags, designed to expand rapidly in the event of a collision to protect the occupants. These yarns are usually made of materials such as nylon or polyester, and have excellent mechanical strength, heat resistance, and abrasion resistance to ensure reliable operation under extreme conditions. The design and performance of airbag yarns directly affect the deployment speed and effectiveness of airbags, thus playing a vital protective role in accidents.

Upstream includes PA66 (e.g., adipic acid/HMDA chain) or PET (PTA/MEG to chips) plus additives; midstream covers melt-spinning, drawing and heat-setting with interlacing/twisting, oiling, in-line QC and lot traceability to meet airbag specs ; downstream comprises fabric weaving (flat-woven or OPW), air-impermeability finishing (silicone/film), cut & sew, and delivery to Tier-1 airbag module assembly.

In 2025, global vehicle airbag yarn production reached approximately 260 k units tons, with an average global market price is \$4 per kg.

Airbag yarn is a specialized material used in automotive airbag systems. It is typically made from high-strength, heat-resistant synthetic fibers that are processed to ensure durability and performance under extreme conditions. The primary function of Airbag yarn is to support the rapid inflation and deployment of airbags in the event of a

collision, providing critical safety protection for vehicle occupants. The cord is integral to the airbag's inflation system, ensuring that the airbag inflates properly and in a timely manner during a crash.

The design and composition of Airbag yarn are subject to stringent safety standards. Airbags must deploy within milliseconds of a collision, and the Airbag yarn must withstand the immense forces generated during this rapid inflation. For this reason, the cord is made from ultra-strong fibers such as aramid fibers (e.g., Kevlar) or polyester, which are known for their high tensile strength and heat resistance. These materials ensure that the Airbag yarn remains intact and functional during the deployment process, even under extreme pressure and heat.

During the inflation process, the Airbag yarn serves as a key component in connecting various parts of the airbag system. It helps to guide the airbag's inflation and ensures that the gas pressure is distributed evenly, allowing the airbag to deploy in the correct direction. The cord also needs to withstand rapid changes in gas pressure and maintain electrical conductivity, ensuring that the airbag triggering system functions reliably. Any failure in the Airbag yarn, such as breakage or electrical malfunction, could lead to a failure of the airbag to deploy, posing significant safety risks.

In addition to strength and heat resistance, Airbag yarns must also exhibit resistance to corrosion and aging. Over the course of the vehicle's lifetime, the Airbag yarn is exposed to a range of environmental conditions, including humidity, UV rays, and potential chemical exposure. To ensure long-term reliability, Airbag yarns are often treated with UV inhibitors and anti-oxidation agents, improving their resistance to wear and tear.

As automotive safety technology continues to evolve, airbag systems are becoming increasingly advanced, with smarter and more responsive triggering mechanisms. Airbag yarn technology is also advancing, with materials being developed to integrate more seamlessly with electronic control systems, allowing for more precise and efficient airbag deployment. Moreover, environmental concerns are driving the development of eco-friendly Airbag yarns made from recyclable and non-toxic materials, which may become an important trend in the future.

In conclusion, Airbag yarn plays a crucial role in the performance of automotive airbag systems. Its strength, heat resistance, and durability ensure that airbags can deploy effectively during a collision, providing essential protection for vehicle occupants. As automotive safety technologies improve and environmental concerns rise, Airbag yarns

will continue to evolve, contributing to the development of safer and more sustainable automotive safety systems.

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

Global Vehicle Airbag Yarn market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Vehicle Airbag Yarn market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Vehicle Airbag Yarn market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), 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 Vehicle Airbag Yarn

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 Vehicle Airbag Yarn 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 Toray, INVISTA, Indorama Ventures?PHP Fibers?, Asahi Kasei, Zhejiang Hailide New Material, Shenma Industrial, Hyosung Advanced Material, Far Eastern Group, Toyobo Indorama Advanced Fibers, Sinowin,

etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## **Market Segmentation**

Vehicle Airbag Yarn 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

Nylon Airbag Yarns

Polyester Airbag Yarns

### Market segment by Airbag

Driver Airbag (DAB)

Passenger Airbag (PAB)

Curtain Airbag (CAB)

Side Airbag (SAB)

Knee Airbag (KAB)

### Market segment by Vehicle

Internal Combustion Engines

New Energy Vehicles

## Market segment by Application

Passenger Car

Commercial Vehicle

## Major players covered

Toray

INVISTA

Indorama Ventures?PHP Fibers?

Asahi Kasei

Zhejiang Hailide New Material

Shenma Industrial

Hyosung Advanced Material

Far Eastern Group

Toyobo Indorama Advanced Fibers

Sinowin

Nexis Fibers

Zhejiang Unifull Industrial Fibre

Hengli 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 Vehicle Airbag Yarn product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Vehicle Airbag Yarn, with price, sales quantity, revenue, and global market share of Vehicle Airbag Yarn from 2021 to 2026.

Chapter 3, the Vehicle Airbag Yarn competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Vehicle Airbag Yarn 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 Vehicle Airbag Yarn 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 Vehicle Airbag Yarn.

Chapter 14 and 15, to describe Vehicle Airbag Yarn sales channel, distributors, customers, research findings and conclusion.

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