

Global Airbag Nylon 66 Yarn Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Airbag Nylon 66 Yarn market size is expected to reach \$ 943 million by 2032, rising at a market growth of 1.0% CAGR during the forecast period (2026-2032). Airbag nylon 66 yarns are high-strength synthetic fiber yarns engineered for automotive airbag systems (such as frontal, side curtain, and knee airbags). Typically composed of Nylon 6 or Nylon 66, they exhibit exceptional tensile strength, heat resistance, abrasion resistance, and dimensional consistency. These properties enable the yarns to maintain fabric integrity under rapid inflation pressures and high forces, making them a critical material in the manufacture of airbag textiles for reliable occupant protection.

Upstream, the supply chain is centered on PA66 resin/chips and related polymerization and spinning equipment suppliers. Downstream, the yarn is converted into airbag fabrics through weaving, followed by silicone coating/finishing, then cut-and-sew into airbag cushions, which are finally assembled into modules and integrated into vehicles by Tier-1 safety system suppliers.

In 2025, global airbag nylon 66 yarns production reached approximately 170 k units tons, with an average global market price is \$5,000 per ton.

Airbag nylon 66 yarns are among the most critical high-performance industrial filaments used in automotive passive safety systems. They are woven into airbag fabrics and further converted into cushions and modules for frontal airbags, side airbags, curtain airbags, and knee airbags. Their core value lies in enabling extremely rapid inflation and deployment, absorbing crash energy, and establishing effective occupant restraint within milliseconds—therefore imposing very stringent requirements on tensile strength, toughness, thermal resistance, and, above all, consistency. For decades, nylon 66 airbag yarns have dominated the most demanding positions (such as driver and passenger frontal airbags), reflecting a mainstream material route shaped jointly by 'safety margin' considerations and long-established system-level validation regimes. From a technology and product evolution perspective, airbag nylon 66 yarn is not a

commodity nylon filament; it is an engineered industrial continuous filament designed around 'high strength and high toughness, low defect rate, low shrinkage, aging resistance, and weaving compatibility.' Key process capabilities include polymerization and viscosity control, stable spinning and drawing, heat-setting and spin-finish chemistry, and strict management of filament defects and fracture behavior?so that the yarn delivers predictable mechanical response under both weaving stresses and the shock loads experienced during airbag deployment. In parallel, as airbag fabrics evolve from conventional flat weaves toward higher-efficiency one-piece-woven (OPW) constructions and more complex textile architectures, nylon yarn development also trends toward tighter consistency, improved weaving adaptability, and more stable compatibility with coating packages. This makes 'yarn?fabric?coating?deployment curve' co-optimization a central upgrade pathway, supported by tighter control of critical parameters such as elongation behavior, thermal shrinkage, and long-term property retention after aging.

In terms of market development and application structure, nylon66 airbag yarn demand is tightly linked to increasing safety content per vehicle: more airbag locations and higher fitment rates raise total consumption. At the same time, material penetration across airbag types is clearly layered. In positions with higher thermal and impact demands and where maximum safety margin is required?most notably frontal airbags?Nylon 66 is likely to remain firmly dominant for an extended period. In non-frontal airbags, however, material choice more readily reflects system-level total optimization, and competitive coexistence with partial substitution by polyester becomes increasingly evident?especially in curtain airbags (CAB), which represent one of the most deterministic 'incremental growth' battlefields. CAB designs and deployment windows often provide greater engineering trade-off space, allowing polyester systems to meet deployment requirements while leveraging advantages in cost elasticity and supply robustness.

Meanwhile, OPW is becoming close to a default architecture for CAB, reducing cutting and sewing steps, improving manufacturing consistency and efficiency, and amplifying the influence of process synergy on material selection?thereby supporting a long-term rise in the 'CAB + OPW + polyester' combination. Overall, nylon remains the benchmark high-performance material defending the core safety-critical applications, while yielding more of the incremental, cost-sensitive growth in CAB and related side-protection scenarios, resulting in a durable dual-material coexistence pattern.

This report studies the global Airbag Nylon 66 Yarn production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Airbag Nylon 66 Yarn and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and

competition, as well as details the characteristics of Airbag Nylon 66 Yarn that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Airbag Nylon 66 Yarn total production and demand, 2021-2032, (Tons)

Global Airbag Nylon 66 Yarn total production value, 2021-2032, (USD Million)

Global Airbag Nylon 66 Yarn production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Airbag Nylon 66 Yarn consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Airbag Nylon 66 Yarn domestic production, consumption, key domestic manufacturers and share

Global Airbag Nylon 66 Yarn production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Airbag Nylon 66 Yarn production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Airbag Nylon 66 Yarn production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Airbag Nylon 66 Yarn market based on the following parameters - company overview, production, value, 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, Shenma Industrial, Toyobo Indorama Advanced Fibers, Sinowin, Nexis Fibers, Hyosung Advanced Material, Far Eastern Group, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Airbag Nylon 66 Yarn market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Airbag Nylon 66 Yarn Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Airbag Nylon 66 Yarn Market, Segmentation by Type:

3 Denier per Filament

6 Denier per Filament

Global Airbag Nylon 66 Yarn Market, Segmentation by Airbag:

Driver Airbag

Passenger Airbag

Curtain Airbag

Side Airbag

Knee Airbag

Global Airbag Nylon 66 Yarn Market, Segmentation by Vehicle:

Internal Combustion Engines

New Energy Vehicles

Global Airbag Nylon 66 Yarn Market, Segmentation by Application:

Passenger Car

Commercial Vehicle

Companies Profiled:

Toray

INVISTA

Indorama Ventures?PHP Fibers?

Asahi Kasei

Shenma Industrial

Toyobo Indorama Advanced Fibers

Sinowin

Nexis Fibers

Hyosung Advanced Material

Far Eastern Group

Sanathan Textiles

Key Questions Answered:

1. How big is the global Airbag Nylon 66 Yarn market?
2. What is the demand of the global Airbag Nylon 66 Yarn market?
3. What is the year over year growth of the global Airbag Nylon 66 Yarn market?
4. What is the production and production value of the global Airbag Nylon 66 Yarn market?
5. Who are the key producers in the global Airbag Nylon 66 Yarn market?

6. What are the growth factors driving the market demand?

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