

Global Thermoregulating Nylon Fiber Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Thermoregulating Nylon Fiber market size is expected to reach \$ 230 million by 2032, rising at a market growth of 12.9% CAGR during the forecast period (2026-2032).

Thermoregulating nylon is a category of functional polyamide fiber materials designed with thermal management and temperature balancing capabilities. The products are primarily based on nylon 6, nylon 66, and selected bio based polyamide systems, and are manufactured through technologies including phase change material integration, functional masterbatch blending, mineral thermal conductive modification, special cross section spinning, microcapsule finishing, and composite spinning processes. These materials are engineered to provide heat absorption, heat release, cooling transfer, moisture and heat balance, and dynamic thermal buffering performance. Major product forms include POY, FDY, DTY, air textured yarns, and functional composite yarns, typically featuring high thermal conductivity efficiency, enhanced surface area, stable moisture management, and long lasting cooling or thermoregulating effects.

Thermoregulating nylon is mainly used in premium sportswear, outdoor apparel, base layers, underwear, sleep textiles, medical textiles, military protective textiles, and emerging smart wearable textile applications. The industry is evolving from conventional cooling fibers toward integrated thermal management materials with multifunctional performance and sustainable material content. In 2025, the global average selling price of thermoregulating nylon products is estimated at approximately USD 7000 to USD 15000 per ton, while the average industry gross margin is estimated at around 28% to 42%.

Thermoregulating nylon represents an emerging niche within the broader functional textile materials industry, fundamentally focusing on dynamic thermal management and

human microclimate regulation through polyamide fiber systems. Compared with conventional cooling fibers, thermoregulating nylon places greater emphasis on heat storage, heat release, and moisture heat balance capabilities, making the industry more dependent on advanced technologies such as phase change materials, thermally conductive minerals, bio based polyamides, and composite spinning processes. The upstream segment mainly involves caprolactam, adipic acid, functional masterbatches, phase change microcapsules, and bio based raw materials, while the midstream segment focuses on functional polymerization, modified spinning, and textile finishing technologies. Downstream applications are primarily concentrated in premium sportswear, outdoor equipment, intimate functional apparel, and sleep related textiles. As consumer demand for comfort, intelligent functionality, and long term thermal regulation continues to increase, the industry is gradually evolving from a simple cooling fiber concept toward a more integrated thermal management model, where durability, washing stability, and low carbon characteristics are becoming increasingly important competitive factors.

The current global supply structure is strongly dominated by Asia, with China, Japan, and South Korea establishing solid industrial foundations in functional nylon production. Among these regions, China is experiencing the fastest expansion in polymerization capacity, specialty spinning, functional masterbatch integration, and large scale manufacturing capability. In recent years, industry capital expenditure has been increasingly directed toward functional fiber capacity expansion, bio based polyamide projects, and high end differentiated spinning facilities. At the same time, some manufacturers are accelerating the integration of phase change thermoregulation technologies with sustainable bio based nylon systems in order to improve product value and strengthen pricing power. Regional supply chains are also undergoing adjustment, as international sportswear and performance apparel brands continue to increase procurement of functional yarns from Asian suppliers, further driving supply chain concentration toward China and Southeast Asia. Although thermoregulating nylon remains a relatively small segment within the broader functional nylon market, the industry demonstrates significantly higher product pricing, stronger gross margins, and more substantial technological barriers than conventional nylon filament products.

Over the next several years, the thermoregulating nylon industry is expected to maintain relatively strong growth momentum, although market penetration is likely to remain gradual rather than explosive. Premium sports consumption, the expansion of the sleep economy, rising outdoor activity participation, and increasing demand for smart wearable products are expected to continue supporting long term market expansion. Meanwhile, low carbon policies and sustainability initiatives are encouraging the

development of bio based polyamides and environmentally friendly functional fibers. From an industry development perspective, future competition will increasingly focus on new product launches and multifunctional performance upgrades, with thermoregulation evolving from basic cooling effects toward bidirectional temperature balancing, coordinated moisture heat management, and multifunctional integration. Due to long downstream validation cycles among apparel brands and textile manufacturers, the market is expected to remain concentrated in mid to high end applications in the near term. However, as phase change material stability improves, spinning technologies mature, and large scale manufacturing capabilities continue to advance, thermoregulating nylon is expected to gradually penetrate broader consumer textile markets and further accelerate the structural upgrading of the functional polyamide fiber industry.

This report studies the global Thermoregulating Nylon Fiber production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Thermoregulating Nylon Fiber 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 Thermoregulating Nylon Fiber that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Thermoregulating Nylon Fiber total production and demand, 2021-2032, (Tons)

Global Thermoregulating Nylon Fiber total production value, 2021-2032, (USD Million)

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

Global Thermoregulating Nylon Fiber consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Thermoregulating Nylon Fiber domestic production, consumption, key domestic manufacturers and share

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

Global Thermoregulating Nylon Fiber production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Thermoregulating Nylon Fiber production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Thermoregulating Nylon Fiber 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 RadiciGroup, Prutex Nylon (Zhejiang Taihua), Guangdong Highsun Meida, Nilit Ltd, AceComfy (Acelon Polyester), Fujian Yongrong Jinjiang Group, Hangzhou Shangxuan Technology Co., Ltd., Hyosung Corp., 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 Thermoregulating Nylon Fiber 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 Thermoregulating Nylon Fiber Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Thermoregulating Nylon Fiber Market, Segmentation by Type:

- Bio-based Polyamide 6 (PA6)
- Bio-based Polyamide 66 (PA66)
- Bio-based Specialty Polyamide (PA56/PA510/PA11)
- Petrochemical-based Polyamide
- Blended / Hybrid Feedstock
- Others

Global Thermoregulating Nylon Fiber Market, Segmentation by Form:

- Phase Change Material Based Nylon
- Mineral Thermal Conductive Nylon
- Moisture and Heat Management Nylon
- Others

Global Thermoregulating Nylon Fiber Market, Segmentation by Technology:

- Acidic (pH 5.0-6.5)
- Neutral (pH 6.5-7.5)
- Alkaline (pH 7.5-9.0)
- Broad Range (pH 5.0-9.0)
- ??

Global Thermoregulating Nylon Fiber Market, Segmentation by Application:

Apparel & Sportswear

Home Textiles

Medical & Healthcare

Military & Government

Industrial / Technical Textiles

Others

Companies Profiled:

RadiciGroup

Prutex Nylon (Zhejiang Taihua)

Guangdong Highsun Meida

Nilit Ltd

AceComfy (Acelon Polyester)

Fujian Yongrong Jinjiang Group

Hangzhou Shangxuan Technology Co., Ltd.

Hyosung Corp.

Key Questions Answered:

1. How big is the global Thermoregulating Nylon Fiber market?
2. What is the demand of the global Thermoregulating Nylon Fiber market?
3. What is the year over year growth of the global Thermoregulating Nylon Fiber market?

4. What is the production and production value of the global Thermoregulating Nylon Fiber market?
5. Who are the key producers in the global Thermoregulating Nylon Fiber market?
6. What are the growth factors driving the market demand?

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