

Global Thermoregulating Nylon Fiber 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 Thermoregulating Nylon Fiber market size was valued at US\$ 98 million in 2025 and is forecast to a readjusted size of US\$ 230 million by 2032 with a CAGR of 12.9% during review period.

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

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

Global Thermoregulating Nylon Fiber 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 Thermoregulating Nylon Fiber 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:

Global Thermoregulating Nylon Fiber Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2...

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Thermoregulating Nylon Fiber

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 Thermoregulating Nylon Fiber 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 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.

Market Segmentation

Thermoregulating Nylon Fiber 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

Bio-based Polyamide 6 (PA6)

Bio-based Polyamide 66 (PA66)

Bio-based Specialty Polyamide (PA56/PA510/PA11)

Petrochemical-based Polyamide

Blended / Hybrid Feedstock

Others

Market segment by Form

Phase Change Material Based Nylon

Mineral Thermal Conductive Nylon

Moisture and Heat Management Nylon

Others

Market segment 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)

??

Market segment by Application

Apparel & Sportswear

Home Textiles

Medical & Healthcare

Military & Government

Industrial / Technical Textiles

Others

Major players covered

RadiciGroup

Prutex Nylon (Zhejiang Taihua)

Guangdong Highsun Meida

Nilit Ltd

AceComfy (Acelon Polyester)

Fujian Yongrong Jinjiang Group

Hangzhou Shangxuan Technology Co., Ltd.

Hyosung Corp.

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 Thermoregulating Nylon Fiber product scope, market overview,

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market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Thermoregulating Nylon Fiber, with price, sales quantity, revenue, and global market share of Thermoregulating Nylon Fiber from 2021 to 2026.

Chapter 3, the Thermoregulating Nylon Fiber competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Thermoregulating Nylon Fiber 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 Thermoregulating Nylon Fiber 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 Thermoregulating Nylon Fiber.

Chapter 14 and 15, to describe Thermoregulating Nylon Fiber sales channel, distributors, customers, research findings and conclusion.

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