

Global Monofilament Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Monofilament market size is expected to reach \$ 1096 million by 2032, rising at a market growth of 3.6% CAGR during the forecast period (2026-2032).

Monofilament refers to a single, continuous filament extruded from a thermoplastic resin and drawn to a precise diameter and ovality. Compared with multifilament yarns, monofilaments deliver higher bending stiffness at a given denier, excellent dimensional stability, and predictable pore geometry when woven or knitted into meshes and fabrics. These properties make monofilaments the backbone of paper machine clothing forming and dryer fabrics, filtration meshes from ambient to high temperature duty, precise brush and oral-care filaments, safety and debris nets, lawn-and-garden trimmer lines, and performance fishing lines. Typical polymer systems include polyamides such as PA6 and PA66 for toughness and abrasion resistance in trimmer line and fishing line, polyesters such as PET and PBT for PMC, brush and hygiene filaments, polyolefins such as HDPE and PP for safety nets, and higher-temperature materials such as PPS or even PEEK for hot-gas filtration duty.

Upstream, monofilament makers rely on polymer chips with narrow IV and additive windows and on precision extrusion, quench, and multi-stage drawing with closely controlled line speed, heater profiles, and online gauging. Specialty stabilizer packages (UV, heat, hydrolysis) and color masterbatches are selected for each end-use. The supplier landscape mixes industrial monofilament groups (Perlon, Monosuisse, Toray Monofilament) that sell into technical textiles and brush hygiene, together with brand owners in sports and tackle (Toray International fishing line, Sunline, Pure Fishing's Berkley Trilene) and regional specialists such as NTEC in China and Superfil in India. Procurement modes vary by application: PMC and filtration fabrics are typically multi-year qualified supply with exact diameter and surface spec; brush and oral-care

filaments are awarded under audited quality systems; safety nets and trimmer lines are usually frame or distributor models; fishing lines are branded retail. Gross margins in technical monofilaments tend to be mid-20s as a directional band, supported by qualification barriers, tolerancing, and recipe IP rather than commodity cost alone; branded sports lines can realize higher margins due to channel mix and marketing. Supplier concentration is moderate: the top five groups across polymer families and regions likely command roughly thirty percent of global value, with the long tail composed of regional extruders and brand owners. Evidence of multi-polymer capability and application breadth is visible at Perlon, Monosuisse, and Toray Monofilament, while NTEC and Superfil illustrate large-scale regional capacity.

In the current market, global production is around 233,000 tons, with an average selling price of about 3,470 USD per ton on an EXW basis, implying a total market value of roughly 808 million USD for 2024. Polymer mix is the prime driver of realized ASP: PA6/PA66 grades for trimmer line and premium fishing lines price above typical PET for PMC and brush filaments, while PP/HDPE safety-net yarns tend to the lower end; high-temperature PPS and similar engineering polymers sit well above the average but account for a smaller share. Demand is anchored in paper machine clothing and industrial fabrics, brushes and oral care, fishing tackle, safety nets, and lawn-and-garden channels, with growth pockets in high-temperature filtration and UV-stabilized outdoor nets. Regionally, demand is diversified—North America and Europe remain large end-markets for PMC and brush hygiene, China and wider Asia lead growth in filtration, safety nets, and sporting goods, and branded fishing lines have global retail reach. Looking to 2025–2031, the market should expand steadily on industrial fabric retrofits and environmental compliance (filtration), continued refresh in paper grades, outdoor infrastructure spending that uses netting, and premiumization in tackle. Risks include polymer cost volatility, qualification lead times that slow supplier switching, and downstream inventory cycles in consumer channels.

This report studies the global Monofilament production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Monofilament total production and demand, 2021-2032, (K MT)

Global Monofilament total production value, 2021-2032, (USD Million)

Global Monofilament production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K MT), (based on production site)

Global Monofilament consumption by region & country, CAGR, 2021-2032 & (K MT)

U.S. VS China: Monofilament domestic production, consumption, key domestic manufacturers and share

Global Monofilament production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K MT)

Global Monofilament production by Polymer, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

Global Monofilament production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

This report profiles key players in the global Monofilament 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 Perlon, Monosuisse, Toray, Celanese, Toyobo, Superfil Products, Astenjohnson, epsotech, Ri-Thai, SUNWARD (XINHUI) MONOFILAMENT FACTORY, 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 Monofilament market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K MT) and average price (USD/MT) by

manufacturer, by Polymer, 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 Monofilament Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Monofilament Market, Segmentation by Polymer:

PA

PET

PP

HDPE

PPS

PVDF

Others

Global Monofilament Market, Segmentation by Diameter:

?0.30 mm fine

0.30–1.00 mm medium

>1.00 mm heavy

Global Monofilament Market, Segmentation by Stabilization Package:

UV Stabilized

Heat Stabilized

Chemical Resistant

Food Grade Compliant

Global Monofilament Market, Segmentation by Application:

Paper Machine Clothing

Filtration

Agricultural

Oral Care Filaments

Industrial Brushes

Fishing Line

Others

Companies Profiled:

Perlon

Monosuisse

Toray

Celanese

Toyobo

Superfil Products

Astenjohnson

epsotech

Ri-Thai

SUNWARD (XINHUI) MONOFILAMENT FACTORY

Nantong NTEC Monofilament Technology

Wuxi Jintong High Performance Fibre Co Ltd

Tai Hing Nylon Filament Products Co Ltd

Zhejiang Best Monofilaments

Key Questions Answered:

1. How big is the global Monofilament market?
2. What is the demand of the global Monofilament market?
3. What is the year over year growth of the global Monofilament market?
4. What is the production and production value of the global Monofilament market?
5. Who are the key producers in the global Monofilament market?
6. What are the growth factors driving the market demand?

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