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Global Transparent Nylon Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Transparent Nylon market size is expected to reach $ 1000 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

In 2025, global Transparent Nylon capacity 86,000 Tons, sales reached approximately 53,145 Tons, with an average market price of around 12,230 USD/Ton, industrial gross margin 35%.

Transparent Nylon is a specialty polyamide platform positioned between conventional engineering polyamides and premium transparent thermoplastics, combining optical clarity with the toughness, fatigue resistance and chemical durability associated with nylon. Commercial grades are generally based on amorphous or microcrystalline molecular structures created through cycloaliphatic, long-chain aliphatic and selected aromatic comonomers that suppress visible-light scattering. Optical grades typically provide approximately 85%–92% light transmission at a thickness of 2–3 mm, densities of around 1.01–1.05 g/cm³ and refractive indices of approximately 1.51–1.54. Across the commercial portfolio, glass-transition temperatures generally span 100–200°C, heat-deflection temperatures approximately 70–170°C and tensile moduli roughly 1.5–3.1 GPa. Semi-crystalline, semi-transparent grades occupy a separate performance tier, offering transmission of approximately 70%–82% at 1–2 mm while retaining the heat and chemical resistance of conventional polyamide systems.

Transparent Nylon technology is differentiated by monomer design, polymerisation discipline and the ability to maintain optical consistency across production batches. Major routes include condensation of cycloaliphatic diamines with long-chain dicarboxylic acids, copolymerisation of long-chain aliphatic polyamides with cycloaliphatic units, and multi-component systems containing aromatic acids or lactam-

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derived units. These structures either prevent the formation of large crystalline regions or reduce crystallite size below the light-scattering threshold. Competitive manufacturing therefore depends on diamine isomer control, monomer purity, molecular-weight distribution, residual monomers, gel-particle reduction and colour stability. Typical injection-moulding grades require drying at approximately 80–90°C for four to six hours and melt processing at around 260–310°C. Although moisture uptake is lower than in many short-chain nylons, equilibrium absorption of roughly 1%–2% remains material to optical appearance and dimensional control.

The Transparent Nylon value chain extends from specialty monomers and polymerisation technology to compounding, colouring, precision moulding and OEM qualification. Upstream inputs include MACM and PACM cycloaliphatic diamines, long-chain dicarboxylic acids, laurolactam and bio-based C11 monomers. Resin producers create application-specific portfolios for optical clarity, high heat, flexibility, environmental stress-crack resistance and sterilisation. Key applications include premium eyewear, sports goggles, AR/VR and smart-device structures, transparent medical housings and fluid connectors, industrial filter bowls, automotive illuminated components, home appliances and cosmetic packaging. EMS-GRIVORY, Evonik, Arkema and BASF are the principal global technology platforms through Grilamid TR, TROGAMID, Rilsan Clear and Ultramid Vision. China is progressing from imported optical grades and domestic modification toward local resin polymerisation, cycloaliphatic-monomer integration and customer-specific product development.

Transparent Nylon growth is shifting from a specialised eyewear-material cycle toward a broader transparent structural-material cycle driven by smart eyewear, AR/VR devices, medical visualisation, fluid-management equipment and premium consumer electronics. Product development is increasingly centred on bio-based carbon, mechanical recycling, low yellowness, thin-wall flow, laser welding and multi-component moulding; selected commercial grades already contain 45%–62% bio-based carbon. In January 2026, Arkema brought a new Transparent Nylon unit in Singapore into operation, strengthening regional supply to Asian customers. During the same month, Evonik and Italian recycler Poliplastic established a closed-loop system in which eyewear-production scrap is recovered and converted into TROGAMID R pellets, with Nylo Zero becoming the first designer eyewear brand to commercialise the recycled material. This model illustrates the transition from conventional resin sales toward certified application grades, circular feedstock programmes and integrated material-to-brand supply relationships.

Report Scope

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Transparent Nylon 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 Evonik, Arkema, EMS, Shandong Xianglong New Materials, Pingdingshan Beiande, Shandong Guangyin New Materials, Weifang HiNNY,

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Shandong Dongchen, Jianhu County Xinglong Nylon, Shandong Beiyisi, 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 Transparent Nylon 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 Transparent Nylon Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Transparent Nylon Market, Segmentation by Type:

Nylon 12

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Nylon 6I/X

Others

Global Transparent Nylon Market, Segmentation by Molecular Architecture:

Amorphous

Microcrystalline

Semi-crystalline

Global Transparent Nylon Market, Segmentation by Processing:

Injection Moulding

Extrusion

Global Transparent Nylon Market, Segmentation by Application:

Optical Product

Automotive

Consumer Good (baby bottle, etc)

Packaging

Electronics and Electrical

Others

Companies Profiled:

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Evonik

Arkema

EMS

Shandong Xianglong New Materials

Pingdingshan Beiande

Shandong Guangyin New Materials

Weifang HiNNY

Shandong Dongchen

Jianhu County Xinglong Nylon

Shandong Beiyisi

Dongguan Shuangyuan New Material

Key Questions Answered:

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

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