

# Global Semi-Aromatic Nylon Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GE4A43C1CF24EN.html>

Date: June 2026

Pages: 138

Price: US\$ 4,480.00 (Single User License)

ID: GE4A43C1CF24EN

## Abstracts

The global Semi-Aromatic Nylon market size is expected to reach \$ 1875 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

Semi-aromatic nylon is a high-performance specialty engineering plastic formed by the condensation polymerization of aliphatic diamines and aromatic diacids (or their derivatives). It combines the easy processability of aliphatic nylon (PA6/PA66) with the high heat resistance of aromatic compounds, possessing a high melting point, extremely low water absorption, high strength, and excellent electrical insulation. Because it maintains good dimensional stability and mechanical properties even at high temperatures, it is an ideal material to replace metals in electronic and electrical connectors and automotive parts.

Main Characteristics:

**High Heat Resistance:** Glass transition temperatures are generally greater than 100?, and melting points are mostly around 300?, capable of withstanding the high temperatures required for lead-free reflow soldering.

**Low Water Absorption and Dimensional Stability:** Compared to ordinary nylon, water absorption is significantly reduced, and even in humid environments, dimensional changes are very small, making it suitable for high-precision components.

**Excellent Chemical Resistance:** Excellent resistance to greases, coolants, salt water, etc.

The upstream sector mainly includes raw material suppliers, such as basic chemical

raw materials like aromatic diacids, aliphatic diamines, and caprolactam, as well as some solvents and catalysts, providing the basic monomers and chemical conditions for the polymerization of semi-aromatic nylon. The midstream sector comprises semi-aromatic nylon polymerization and modification companies. These companies process raw materials into semi-aromatic nylon products of different grades and properties through polymerization, copolymerization, modification, or reinforcement treatments, including granules, fibers, or modified sheets. The downstream sector covers manufacturing companies in application fields such as automotive, electronics, industrial machinery, and fiber composites. They use semi-aromatic nylon to process high-temperature parts, wear-resistant gears, connector housings, high-performance fibers, and composite materials.

In 2025, global sales of semi-aromatic nylon reached 152,000 tons, with a production capacity of approximately 203,000 tons, an average selling price of US\$7,950 per ton, and an average gross profit margin of 20%-30%.

The global supply chain for semi-aromatic nylon is primarily comprised of large chemical materials companies and specialized engineering plastics manufacturers. Europe, the US, Japan, and China are the main supply regions, leveraging their mature technologies, large-scale production capabilities, and global sales networks to dominate the high-end market. Meanwhile, Chinese domestic companies are accelerating capacity expansion, seizing mid-range market share through cost advantages and rapid delivery. Overall, the global market supply exhibits a pattern of 'regional distribution + multi-brand competition.'

As a high-performance engineering plastic, the demand for semi-aromatic nylon mainly comes from downstream industries requiring materials with high heat resistance, high mechanical strength, and chemical resistance. The traditional automotive industry is one of the largest consumers, particularly excelling in high-temperature applications such as engine compartment components, fuel systems, and cooling systems. With the accelerating trends of new energy vehicles and lightweighting, the demand for composite materials and high-temperature structural components continues to grow. Furthermore, the electronics and electrical industries (such as connectors, housings, and insulation components), industrial machinery gears, aerospace, and precision equipment manufacturing are also becoming new growth drivers, contributing to a steady increase in overall market demand.

The technological roadmap for semi-aromatic nylon has evolved from the initial basic copolymers towards higher performance levels. Early products such as PA6T/66 and

PA6T/6I outperformed ordinary nylon in heat resistance and mechanical properties. However, with increasing application requirements, more semi-aromatic nylon series with higher high-temperature ratings, lower water absorption, and higher crystallinity have emerged, such as PA9T and PA10T. These new varieties further improve heat distortion temperature, dimensional stability, and chemical corrosion resistance. At the same time, reinforced and modified semi-aromatic nylons (such as glass fiber reinforced and mineral-filled modified nylons) have developed rapidly, enabling material properties to be more precisely adapted to complex industrial applications.

This report studies the global Semi-Aromatic Nylon production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Semi-Aromatic Nylon total production and demand, 2021-2032, (Kilotons)

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

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

Global Semi-Aromatic Nylon consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Semi-Aromatic Nylon domestic production, consumption, key domestic manufacturers and share

Global Semi-Aromatic Nylon production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Semi-Aromatic Nylon production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Semi-Aromatic Nylon production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Semi-Aromatic 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 DuPont, Solvay, BASF, EMS?Grivory, Evonik, DSM, Mitsui Chemicals, Kuraray, Arkema, Celanese, 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 Semi-Aromatic Nylon market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) 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 Semi-Aromatic Nylon Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semi-Aromatic Nylon Market, Segmentation by Type:

PA6T Series

PA9T Series

PA6I Series

PA10T Series

Other

Global Semi-Aromatic Nylon Market, Segmentation by Composition Type:

Homopolymer

Copolymer

Global Semi-Aromatic Nylon Market, Segmentation by Heat Distortion Temperature:

220-250?

250-280?

?280?

Global Semi-Aromatic Nylon Market, Segmentation by Application:

Automotive

Electrical and Electronic Products

Industrial Manufacturing

Aerospace

Other

Companies Profiled:

DuPont

Solvay

BASF

EMS?Grivory

Evonik

DSM

Mitsui Chemicals

Kuraray

Arkema

Celanese

RTP Company

Korea Engineering Plastics

Kingfa

Chang Yu Group

NHU

Wote Advanced Materials

Benzo Chemicals

Key Questions Answered:

1. How big is the global Semi-Aromatic Nylon market?
2. What is the demand of the global Semi-Aromatic Nylon market?
3. What is the year over year growth of the global Semi-Aromatic Nylon market?

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

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Semi-Aromatic Nylon Introduction
- 1.2 World Semi-Aromatic Nylon Supply & Forecast
  - 1.2.1 World Semi-Aromatic Nylon Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Semi-Aromatic Nylon Production (2021-2032)
  - 1.2.3 World Semi-Aromatic Nylon Pricing Trends (2021-2032)
- 1.3 World Semi-Aromatic Nylon Production by Region (Based on Production Site)
  - 1.3.1 World Semi-Aromatic Nylon Production Value by Region (2021-2032)
  - 1.3.2 World Semi-Aromatic Nylon Production by Region (2021-2032)
  - 1.3.3 World Semi-Aromatic Nylon Average Price by Region (2021-2032)
  - 1.3.4 North America Semi-Aromatic Nylon Production (2021-2032)
  - 1.3.5 Europe Semi-Aromatic Nylon Production (2021-2032)
  - 1.3.6 China Semi-Aromatic Nylon Production (2021-2032)
  - 1.3.7 Japan Semi-Aromatic Nylon Production (2021-2032)
  - 1.3.8 India Semi-Aromatic Nylon Production (2021-2032)
  - 1.3.9 Southeast Asia Semi-Aromatic Nylon Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Semi-Aromatic Nylon Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Semi-Aromatic Nylon Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Semi-Aromatic Nylon Demand (2021-2032)
- 2.2 World Semi-Aromatic Nylon Consumption by Region
  - 2.2.1 World Semi-Aromatic Nylon Consumption by Region (2021-2026)
  - 2.2.2 World Semi-Aromatic Nylon Consumption Forecast by Region (2027-2032)
- 2.3 United States Semi-Aromatic Nylon Consumption (2021-2032)
- 2.4 China Semi-Aromatic Nylon Consumption (2021-2032)
- 2.5 Europe Semi-Aromatic Nylon Consumption (2021-2032)
- 2.6 Japan Semi-Aromatic Nylon Consumption (2021-2032)
- 2.7 South Korea Semi-Aromatic Nylon Consumption (2021-2032)
- 2.8 ASEAN Semi-Aromatic Nylon Consumption (2021-2032)
- 2.9 India Semi-Aromatic Nylon Consumption (2021-2032)

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Semi-Aromatic Nylon Production Value by Manufacturer (2021-2026)
- 3.2 World Semi-Aromatic Nylon Production by Manufacturer (2021-2026)
- 3.3 World Semi-Aromatic Nylon Average Price by Manufacturer (2021-2026)
- 3.4 Semi-Aromatic Nylon Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Semi-Aromatic Nylon Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Semi-Aromatic Nylon in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Semi-Aromatic Nylon in 2025
- 3.6 Semi-Aromatic Nylon Market: Overall Company Footprint Analysis
  - 3.6.1 Semi-Aromatic Nylon Market: Region Footprint
  - 3.6.2 Semi-Aromatic Nylon Market: Company Product Type Footprint
  - 3.6.3 Semi-Aromatic Nylon Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

## **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: Semi-Aromatic Nylon Production Value Comparison
  - 4.1.1 United States VS China: Semi-Aromatic Nylon Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: Semi-Aromatic Nylon Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Semi-Aromatic Nylon Production Comparison
  - 4.2.1 United States VS China: Semi-Aromatic Nylon Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: Semi-Aromatic Nylon Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Semi-Aromatic Nylon Consumption Comparison
  - 4.3.1 United States VS China: Semi-Aromatic Nylon Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: Semi-Aromatic Nylon Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Semi-Aromatic Nylon Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Semi-Aromatic Nylon Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Semi-Aromatic Nylon Production Value (2021-2026)

4.4.3 United States Based Manufacturers Semi-Aromatic Nylon Production (2021-2026)

4.5 China Based Semi-Aromatic Nylon Manufacturers and Market Share

4.5.1 China Based Semi-Aromatic Nylon Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Semi-Aromatic Nylon Production Value (2021-2026)

4.5.3 China Based Manufacturers Semi-Aromatic Nylon Production (2021-2026)

4.6 Rest of World Based Semi-Aromatic Nylon Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Semi-Aromatic Nylon Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Semi-Aromatic Nylon Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Semi-Aromatic Nylon Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Semi-Aromatic Nylon Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 PA6T Series

5.2.2 PA9T Series

5.2.3 PA6I Series

5.2.4 PA10T Series

5.2.5 Other

5.3 Market Segment by Type

5.3.1 World Semi-Aromatic Nylon Production by Type (2021-2032)

5.3.2 World Semi-Aromatic Nylon Production Value by Type (2021-2032)

5.3.3 World Semi-Aromatic Nylon Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY COMPOSITION TYPE**

6.1 World Semi-Aromatic Nylon Market Size Overview by Composition Type: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Composition Type

6.2.1 Homopolymer

6.2.2 Copolymer

6.3 Market Segment by Composition Type

6.3.1 World Semi-Aromatic Nylon Production by Composition Type (2021-2032)

6.3.2 World Semi-Aromatic Nylon Production Value by Composition Type (2021-2032)

6.3.3 World Semi-Aromatic Nylon Average Price by Composition Type (2021-2032)

## **7 MARKET ANALYSIS BY HEAT DISTORTION TEMPERATURE**

7.1 World Semi-Aromatic Nylon Market Size Overview by Heat Distortion Temperature: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Heat Distortion Temperature

7.2.1 220-250?

7.2.2 250-280?

7.2.3 ?280?

7.3 Market Segment by Heat Distortion Temperature

7.3.1 World Semi-Aromatic Nylon Production by Heat Distortion Temperature (2021-2032)

7.3.2 World Semi-Aromatic Nylon Production Value by Heat Distortion Temperature (2021-2032)

7.3.3 World Semi-Aromatic Nylon Average Price by Heat Distortion Temperature (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Semi-Aromatic Nylon Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Automotive

8.2.2 Electrical and Electronic Products

8.2.3 Industrial Manufacturing

8.2.4 Aerospace

8.2.5 Other

8.3 Market Segment by Application

8.3.1 World Semi-Aromatic Nylon Production by Application (2021-2032)

8.3.2 World Semi-Aromatic Nylon Production Value by Application (2021-2032)

8.3.3 World Semi-Aromatic Nylon Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

## 9.1 DuPont

9.1.1 DuPont Details

9.1.2 DuPont Major Business

9.1.3 DuPont Semi-Aromatic Nylon Product and Services

9.1.4 DuPont Semi-Aromatic Nylon Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 DuPont Recent Developments/Updates

9.1.6 DuPont Competitive Strengths & Weaknesses

## 9.2 Solvay

9.2.1 Solvay Details

9.2.2 Solvay Major Business

9.2.3 Solvay Semi-Aromatic Nylon Product and Services

9.2.4 Solvay Semi-Aromatic Nylon Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Solvay Recent Developments/Updates

9.2.6 Solvay Competitive Strengths & Weaknesses

## 9.3 BASF

9.3.1 BASF Details

9.3.2 BASF Major Business

9.3.3 BASF Semi-Aromatic Nylon Product and Services

9.3.4 BASF Semi-Aromatic Nylon Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 BASF Recent Developments/Updates

9.3.6 BASF Competitive Strengths & Weaknesses

## 9.4 EMS?Grivory

9.4.1 EMS?Grivory Details

9.4.2 EMS?Grivory Major Business

9.4.3 EMS?Grivory Semi-Aromatic Nylon Product and Services

9.4.4 EMS?Grivory Semi-Aromatic Nylon Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 EMS?Grivory Recent Developments/Updates

9.4.6 EMS?Grivory Competitive Strengths & Weaknesses

## 9.5 Evonik

9.5.1 Evonik Details

9.5.2 Evonik Major Business

9.5.3 Evonik Semi-Aromatic Nylon Product and Services

9.5.4 Evonik Semi-Aromatic Nylon Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Evonik Recent Developments/Updates

9.5.6 Evonik Competitive Strengths & Weaknesses

## 9.6 DSM

9.6.1 DSM Details

9.6.2 DSM Major Business

9.6.3 DSM Semi-Aromatic Nylon Product and Services

9.6.4 DSM Semi-Aromatic Nylon Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 DSM Recent Developments/Updates

9.6.6 DSM Competitive Strengths & Weaknesses

## 9.7 Mitsui Chemicals

9.7.1 Mitsui Chemicals Details

9.7.2 Mitsui Chemicals Major Business

9.7.3 Mitsui Chemicals Semi-Aromatic Nylon Product and Services

9.7.4 Mitsui Chemicals Semi-Aromatic Nylon Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Mitsui Chemicals Recent Developments/Updates

9.7.6 Mitsui Chemicals Competitive Strengths & Weaknesses

## 9.8 Kuraray

9.8.1 Kuraray Details

9.8.2 Kuraray Major Business

9.8.3 Kuraray Semi-Aromatic Nylon Product and Services

9.8.4 Kuraray Semi-Aromatic Nylon Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Kuraray Recent Developments/Updates

9.8.6 Kuraray Competitive Strengths & Weaknesses

## 9.9 Arkema

9.9.1 Arkema Details

9.9.2 Arkema Major Business

9.9.3 Arkema Semi-Aromatic Nylon Product and Services

9.9.4 Arkema Semi-Aromatic Nylon Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Arkema Recent Developments/Updates

9.9.6 Arkema Competitive Strengths & Weaknesses

## 9.10 Celanese

9.10.1 Celanese Details

9.10.2 Celanese Major Business

9.10.3 Celanese Semi-Aromatic Nylon Product and Services

9.10.4 Celanese Semi-Aromatic Nylon Production, Price, Value, Gross Margin and

## Market Share (2021-2026)

9.10.5 Celanese Recent Developments/Updates

9.10.6 Celanese Competitive Strengths & Weaknesses

## 9.11 RTP Company

9.11.1 RTP Company Details

9.11.2 RTP Company Major Business

9.11.3 RTP Company Semi-Aromatic Nylon Product and Services

9.11.4 RTP Company Semi-Aromatic Nylon Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 RTP Company Recent Developments/Updates

9.11.6 RTP Company Competitive Strengths & Weaknesses

## 9.12 Korea Engineering Plastics

9.12.1 Korea Engineering Plastics Details

9.12.2 Korea Engineering Plastics Major Business

9.12.3 Korea Engineering Plastics Semi-Aromatic Nylon Product and Services

9.12.4 Korea Engineering Plastics Semi-Aromatic Nylon Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Korea Engineering Plastics Recent Developments/Updates

9.12.6 Korea Engineering Plastics Competitive Strengths & Weaknesses

## 9.13 Kingfa

9.13.1 Kingfa Details

9.13.2 Kingfa Major Business

9.13.3 Kingfa Semi-Aromatic Nylon Product and Services

9.13.4 Kingfa Semi-Aromatic Nylon Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Kingfa Recent Developments/Updates

9.13.6 Kingfa Competitive Strengths & Weaknesses

## 9.14 Chang Yu Group

9.14.1 Chang Yu Group Details

9.14.2 Chang Yu Group Major Business

9.14.3 Chang Yu Group Semi-Aromatic Nylon Product and Services

9.14.4 Chang Yu Group Semi-Aromatic Nylon Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Chang Yu Group Recent Developments/Updates

9.14.6 Chang Yu Group Competitive Strengths & Weaknesses

## 9.15 NHU

9.15.1 NHU Details

9.15.2 NHU Major Business

9.15.3 NHU Semi-Aromatic Nylon Product and Services

- 9.15.4 NHU Semi-Aromatic Nylon Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.15.5 NHU Recent Developments/Updates
- 9.15.6 NHU Competitive Strengths & Weaknesses
- 9.16 Wote Advanced Materials
  - 9.16.1 Wote Advanced Materials Details
  - 9.16.2 Wote Advanced Materials Major Business
  - 9.16.3 Wote Advanced Materials Semi-Aromatic Nylon Product and Services
  - 9.16.4 Wote Advanced Materials Semi-Aromatic Nylon Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.16.5 Wote Advanced Materials Recent Developments/Updates
  - 9.16.6 Wote Advanced Materials Competitive Strengths & Weaknesses
- 9.17 Benzo Chemicals
  - 9.17.1 Benzo Chemicals Details
  - 9.17.2 Benzo Chemicals Major Business
  - 9.17.3 Benzo Chemicals Semi-Aromatic Nylon Product and Services
  - 9.17.4 Benzo Chemicals Semi-Aromatic Nylon Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.17.5 Benzo Chemicals Recent Developments/Updates
  - 9.17.6 Benzo Chemicals Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 Semi-Aromatic Nylon Industry Chain
- 10.2 Semi-Aromatic Nylon Upstream Analysis
  - 10.2.1 Semi-Aromatic Nylon Core Raw Materials
  - 10.2.2 Main Manufacturers of Semi-Aromatic Nylon Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Semi-Aromatic Nylon Production Mode
- 10.6 Semi-Aromatic Nylon Procurement Model
- 10.7 Semi-Aromatic Nylon Industry Sales Model and Sales Channels
  - 10.7.1 Semi-Aromatic Nylon Sales Model
  - 10.7.2 Semi-Aromatic Nylon Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Semi-Aromatic Nylon Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Semi-Aromatic Nylon Production Value by Region (2021-2026) & (USD Million)

Table 3. World Semi-Aromatic Nylon Production Value by Region (2027-2032) & (USD Million)

Table 4. World Semi-Aromatic Nylon Production Value Market Share by Region (2021-2026)

Table 5. World Semi-Aromatic Nylon Production Value Market Share by Region (2027-2032)

Table 6. World Semi-Aromatic Nylon Production by Region (2021-2026) & (Kilotons)

Table 7. World Semi-Aromatic Nylon Production by Region (2027-2032) & (Kilotons)

Table 8. World Semi-Aromatic Nylon Production Market Share by Region (2021-2026)

Table 9. World Semi-Aromatic Nylon Production Market Share by Region (2027-2032)

Table 10. World Semi-Aromatic Nylon Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Semi-Aromatic Nylon Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Semi-Aromatic Nylon Major Market Trends

Table 13. World Semi-Aromatic Nylon Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Kilotons)

Table 14. World Semi-Aromatic Nylon Consumption by Region (2021-2026) & (Kilotons)

Table 15. World Semi-Aromatic Nylon Consumption Forecast by Region (2027-2032) & (Kilotons)

Table 16. World Semi-Aromatic Nylon Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Semi-Aromatic Nylon Producers in 2025

Table 18. World Semi-Aromatic Nylon Production by Manufacturer (2021-2026) & (Kilotons)

Table 19. Production Market Share of Key Semi-Aromatic Nylon Producers in 2025

Table 20. World Semi-Aromatic Nylon Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Semi-Aromatic Nylon Company Evaluation Quadrant

Table 22. World Semi-Aromatic Nylon Industry Rank of Major Manufacturers, Based on

## Production Value in 2025

Table 23. Head Office and Semi-Aromatic Nylon Production Site of Key Manufacturer

Table 24. Semi-Aromatic Nylon Market: Company Product Type Footprint

Table 25. Semi-Aromatic Nylon Market: Company Product Application Footprint

Table 26. Semi-Aromatic Nylon Competitive Factors

Table 27. Semi-Aromatic Nylon New Entrant and Capacity Expansion Plans

Table 28. Semi-Aromatic Nylon Mergers &amp; Acquisitions Activity

Table 29. United States VS China Semi-Aromatic Nylon Production Value Comparison, (2021 &amp; 2025 &amp; 2032) &amp; (USD Million)

Table 30. United States VS China Semi-Aromatic Nylon Production Comparison, (2021 &amp; 2025 &amp; 2032) &amp; (Kilotons)

Table 31. United States VS China Semi-Aromatic Nylon Consumption Comparison, (2021 &amp; 2025 &amp; 2032) &amp; (Kilotons)

Table 32. United States Based Semi-Aromatic Nylon Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Semi-Aromatic Nylon Production Value, (2021-2026) &amp; (USD Million)

Table 34. United States Based Manufacturers Semi-Aromatic Nylon Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Semi-Aromatic Nylon Production (2021-2026) &amp; (Kilotons)

Table 36. United States Based Manufacturers Semi-Aromatic Nylon Production Market Share (2021-2026)

Table 37. China Based Semi-Aromatic Nylon Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Semi-Aromatic Nylon Production Value, (2021-2026) &amp; (USD Million)

Table 39. China Based Manufacturers Semi-Aromatic Nylon Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Semi-Aromatic Nylon Production, (2021-2026) &amp; (Kilotons)

Table 41. China Based Manufacturers Semi-Aromatic Nylon Production Market Share (2021-2026)

Table 42. Rest of World Based Semi-Aromatic Nylon Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Semi-Aromatic Nylon Production Value, (2021-2026) &amp; (USD Million)

Table 44. Rest of World Based Manufacturers Semi-Aromatic Nylon Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Semi-Aromatic Nylon Production, (2021-2026) & (Kilotons)

Table 46. Rest of World Based Manufacturers Semi-Aromatic Nylon Production Market Share (2021-2026)

Table 47. World Semi-Aromatic Nylon Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Semi-Aromatic Nylon Production by Type (2021-2026) & (Kilotons)

Table 49. World Semi-Aromatic Nylon Production by Type (2027-2032) & (Kilotons)

Table 50. World Semi-Aromatic Nylon Production Value by Type (2021-2026) & (USD Million)

Table 51. World Semi-Aromatic Nylon Production Value by Type (2027-2032) & (USD Million)

Table 52. World Semi-Aromatic Nylon Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Semi-Aromatic Nylon Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Semi-Aromatic Nylon Production Value by Composition Type, (USD Million), 2021 & 2025 & 2032

Table 55. World Semi-Aromatic Nylon Production by Composition Type (2021-2026) & (Kilotons)

Table 56. World Semi-Aromatic Nylon Production by Composition Type (2027-2032) & (Kilotons)

Table 57. World Semi-Aromatic Nylon Production Value by Composition Type (2021-2026) & (USD Million)

Table 58. World Semi-Aromatic Nylon Production Value by Composition Type (2027-2032) & (USD Million)

Table 59. World Semi-Aromatic Nylon Average Price by Composition Type (2021-2026) & (US\$/Ton)

Table 60. World Semi-Aromatic Nylon Average Price by Composition Type (2027-2032) & (US\$/Ton)

Table 61. World Semi-Aromatic Nylon Production Value by Heat Distortion Temperature, (USD Million), 2021 & 2025 & 2032

Table 62. World Semi-Aromatic Nylon Production by Heat Distortion Temperature (2021-2026) & (Kilotons)

Table 63. World Semi-Aromatic Nylon Production by Heat Distortion Temperature (2027-2032) & (Kilotons)

Table 64. World Semi-Aromatic Nylon Production Value by Heat Distortion Temperature (2021-2026) & (USD Million)

Table 65. World Semi-Aromatic Nylon Production Value by Heat Distortion Temperature (2027-2032) & (USD Million)

Table 66. World Semi-Aromatic Nylon Average Price by Heat Distortion Temperature

(2021-2026) & (US\$/Ton)

Table 67. World Semi-Aromatic Nylon Average Price by Heat Distortion Temperature (2027-2032) & (US\$/Ton)

Table 68. World Semi-Aromatic Nylon Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Semi-Aromatic Nylon Production by Application (2021-2026) & (Kilotons)

Table 70. World Semi-Aromatic Nylon Production by Application (2027-2032) & (Kilotons)

Table 71. World Semi-Aromatic Nylon Production Value by Application (2021-2026) & (USD Million)

Table 72. World Semi-Aromatic Nylon Production Value by Application (2027-2032) & (USD Million)

Table 73. World Semi-Aromatic Nylon Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Semi-Aromatic Nylon Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. DuPont Basic Information, Manufacturing Base and Competitors

Table 76. DuPont Major Business

Table 77. DuPont Semi-Aromatic Nylon Product and Services

Table 78. DuPont Semi-Aromatic Nylon Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. DuPont Recent Developments/Updates

Table 80. DuPont Competitive Strengths & Weaknesses

Table 81. Solvay Basic Information, Manufacturing Base and Competitors

Table 82. Solvay Major Business

Table 83. Solvay Semi-Aromatic Nylon Product and Services

Table 84. Solvay Semi-Aromatic Nylon Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Solvay Recent Developments/Updates

Table 86. Solvay Competitive Strengths & Weaknesses

Table 87. BASF Basic Information, Manufacturing Base and Competitors

Table 88. BASF Major Business

Table 89. BASF Semi-Aromatic Nylon Product and Services

Table 90. BASF Semi-Aromatic Nylon Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. BASF Recent Developments/Updates

Table 92. BASF Competitive Strengths & Weaknesses

Table 93. EMS?Grivory Basic Information, Manufacturing Base and Competitors

- Table 94. EMS?Grivory Major Business
- Table 95. EMS?Grivory Semi-Aromatic Nylon Product and Services
- Table 96. EMS?Grivory Semi-Aromatic Nylon Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. EMS?Grivory Recent Developments/Updates
- Table 98. EMS?Grivory Competitive Strengths & Weaknesses
- Table 99. Evonik Basic Information, Manufacturing Base and Competitors
- Table 100. Evonik Major Business
- Table 101. Evonik Semi-Aromatic Nylon Product and Services
- Table 102. Evonik Semi-Aromatic Nylon Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Evonik Recent Developments/Updates
- Table 104. Evonik Competitive Strengths & Weaknesses
- Table 105. DSM Basic Information, Manufacturing Base and Competitors
- Table 106. DSM Major Business
- Table 107. DSM Semi-Aromatic Nylon Product and Services
- Table 108. DSM Semi-Aromatic Nylon Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. DSM Recent Developments/Updates
- Table 110. DSM Competitive Strengths & Weaknesses
- Table 111. Mitsui Chemicals Basic Information, Manufacturing Base and Competitors
- Table 112. Mitsui Chemicals Major Business
- Table 113. Mitsui Chemicals Semi-Aromatic Nylon Product and Services
- Table 114. Mitsui Chemicals Semi-Aromatic Nylon Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Mitsui Chemicals Recent Developments/Updates
- Table 116. Mitsui Chemicals Competitive Strengths & Weaknesses
- Table 117. Kuraray Basic Information, Manufacturing Base and Competitors
- Table 118. Kuraray Major Business
- Table 119. Kuraray Semi-Aromatic Nylon Product and Services
- Table 120. Kuraray Semi-Aromatic Nylon Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Kuraray Recent Developments/Updates
- Table 122. Kuraray Competitive Strengths & Weaknesses
- Table 123. Arkema Basic Information, Manufacturing Base and Competitors
- Table 124. Arkema Major Business
- Table 125. Arkema Semi-Aromatic Nylon Product and Services
- Table 126. Arkema Semi-Aromatic Nylon Production (Kilotons), Price (US\$/Ton),

Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Arkema Recent Developments/Updates

Table 128. Arkema Competitive Strengths & Weaknesses

Table 129. Celanese Basic Information, Manufacturing Base and Competitors

Table 130. Celanese Major Business

Table 131. Celanese Semi-Aromatic Nylon Product and Services

Table 132. Celanese Semi-Aromatic Nylon Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Celanese Recent Developments/Updates

Table 134. Celanese Competitive Strengths & Weaknesses

Table 135. RTP Company Basic Information, Manufacturing Base and Competitors

Table 136. RTP Company Major Business

Table 137. RTP Company Semi-Aromatic Nylon Product and Services

Table 138. RTP Company Semi-Aromatic Nylon Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. RTP Company Recent Developments/Updates

Table 140. RTP Company Competitive Strengths & Weaknesses

Table 141. Korea Engineering Plastics Basic Information, Manufacturing Base and Competitors

Table 142. Korea Engineering Plastics Major Business

Table 143. Korea Engineering Plastics Semi-Aromatic Nylon Product and Services

Table 144. Korea Engineering Plastics Semi-Aromatic Nylon Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Korea Engineering Plastics Recent Developments/Updates

Table 146. Korea Engineering Plastics Competitive Strengths & Weaknesses

Table 147. Kingfa Basic Information, Manufacturing Base and Competitors

Table 148. Kingfa Major Business

Table 149. Kingfa Semi-Aromatic Nylon Product and Services

Table 150. Kingfa Semi-Aromatic Nylon Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Kingfa Recent Developments/Updates

Table 152. Kingfa Competitive Strengths & Weaknesses

Table 153. Chang Yu Group Basic Information, Manufacturing Base and Competitors

Table 154. Chang Yu Group Major Business

Table 155. Chang Yu Group Semi-Aromatic Nylon Product and Services

Table 156. Chang Yu Group Semi-Aromatic Nylon Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 157. Chang Yu Group Recent Developments/Updates
- Table 158. Chang Yu Group Competitive Strengths & Weaknesses
- Table 159. NHU Basic Information, Manufacturing Base and Competitors
- Table 160. NHU Major Business
- Table 161. NHU Semi-Aromatic Nylon Product and Services
- Table 162. NHU Semi-Aromatic Nylon Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 163. NHU Recent Developments/Updates
- Table 164. NHU Competitive Strengths & Weaknesses
- Table 165. Wote Advanced Materials Basic Information, Manufacturing Base and Competitors
- Table 166. Wote Advanced Materials Major Business
- Table 167. Wote Advanced Materials Semi-Aromatic Nylon Product and Services
- Table 168. Wote Advanced Materials Semi-Aromatic Nylon Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 169. Wote Advanced Materials Recent Developments/Updates
- Table 170. Wote Advanced Materials Competitive Strengths & Weaknesses
- Table 171. Benzo Chemicals Basic Information, Manufacturing Base and Competitors
- Table 172. Benzo Chemicals Major Business
- Table 173. Benzo Chemicals Semi-Aromatic Nylon Product and Services
- Table 174. Benzo Chemicals Semi-Aromatic Nylon Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 175. Benzo Chemicals Recent Developments/Updates
- Table 176. Benzo Chemicals Competitive Strengths & Weaknesses
- Table 177. Global Key Players of Semi-Aromatic Nylon Upstream (Raw Materials)
- Table 178. Global Semi-Aromatic Nylon Typical Customers
- Table 179. Semi-Aromatic Nylon Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Semi-Aromatic Nylon Picture

Figure 2. World Semi-Aromatic Nylon Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Semi-Aromatic Nylon Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Semi-Aromatic Nylon Production (2021-2032) & (Kilotons)

Figure 5. World Semi-Aromatic Nylon Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Semi-Aromatic Nylon Production Value Market Share by Region (2021-2032)

Figure 7. World Semi-Aromatic Nylon Production Market Share by Region (2021-2032)

Figure 8. North America Semi-Aromatic Nylon Production (2021-2032) & (Kilotons)

Figure 9. Europe Semi-Aromatic Nylon Production (2021-2032) & (Kilotons)

Figure 10. China Semi-Aromatic Nylon Production (2021-2032) & (Kilotons)

Figure 11. Japan Semi-Aromatic Nylon Production (2021-2032) & (Kilotons)

Figure 12. India Semi-Aromatic Nylon Production (2021-2032) & (Kilotons)

Figure 13. Southeast Asia Semi-Aromatic Nylon Production (2021-2032) & (Kilotons)

Figure 14. Semi-Aromatic Nylon Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Semi-Aromatic Nylon Consumption (2021-2032) & (Kilotons)

Figure 17. World Semi-Aromatic Nylon Consumption Market Share by Region (2021-2032)

Figure 18. United States Semi-Aromatic Nylon Consumption (2021-2032) & (Kilotons)

Figure 19. China Semi-Aromatic Nylon Consumption (2021-2032) & (Kilotons)

Figure 20. Europe Semi-Aromatic Nylon Consumption (2021-2032) & (Kilotons)

Figure 21. Japan Semi-Aromatic Nylon Consumption (2021-2032) & (Kilotons)

Figure 22. South Korea Semi-Aromatic Nylon Consumption (2021-2032) & (Kilotons)

Figure 23. ASEAN Semi-Aromatic Nylon Consumption (2021-2032) & (Kilotons)

Figure 24. India Semi-Aromatic Nylon Consumption (2021-2032) & (Kilotons)

Figure 25. Producer Shipments of Semi-Aromatic Nylon by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Semi-Aromatic Nylon Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Semi-Aromatic Nylon Markets in 2025

Figure 28. United States VS China: Semi-Aromatic Nylon Production Value Market

Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Semi-Aromatic Nylon Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Semi-Aromatic Nylon Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Semi-Aromatic Nylon Production Market Share 2025

Figure 32. China Based Manufacturers Semi-Aromatic Nylon Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Semi-Aromatic Nylon Production Market Share 2025

Figure 34. World Semi-Aromatic Nylon Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Semi-Aromatic Nylon Production Value Market Share by Type in 2025

Figure 36. PA6T Series

Figure 37. PA9T Series

Figure 38. PA6I Series

Figure 39. PA10T Series

Figure 40. Other

Figure 41. World Semi-Aromatic Nylon Production Market Share by Type (2021-2032)

Figure 42. World Semi-Aromatic Nylon Production Value Market Share by Type (2021-2032)

Figure 43. World Semi-Aromatic Nylon Average Price by Type (2021-2032) & (US\$/Ton)

Figure 44. World Semi-Aromatic Nylon Production Value by Composition Type, (USD Million), 2021 & 2025 & 2032

Figure 45. World Semi-Aromatic Nylon Production Value Market Share by Composition Type in 2025

Figure 46. Homopolymer

Figure 47. Copolymer

Figure 48. World Semi-Aromatic Nylon Production Market Share by Composition Type (2021-2032)

Figure 49. World Semi-Aromatic Nylon Production Value Market Share by Composition Type (2021-2032)

Figure 50. World Semi-Aromatic Nylon Average Price by Composition Type (2021-2032) & (US\$/Ton)

Figure 51. World Semi-Aromatic Nylon Production Value by Heat Distortion Temperature, (USD Million), 2021 & 2025 & 2032

Figure 52. World Semi-Aromatic Nylon Production Value Market Share by Heat

Distortion Temperature in 2025

Figure 53. 220-250?

Figure 54. 250-280?

Figure 55. ?280?

Figure 56. World Semi-Aromatic Nylon Production Market Share by Heat Distortion Temperature (2021-2032)

Figure 57. World Semi-Aromatic Nylon Production Value Market Share by Heat Distortion Temperature (2021-2032)

Figure 58. World Semi-Aromatic Nylon Average Price by Heat Distortion Temperature (2021-2032) & (US\$/Ton)

Figure 59. World Semi-Aromatic Nylon Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 60. World Semi-Aromatic Nylon Production Value Market Share by Application in 2025

Figure 61. Automotive

Figure 62. Electrical and Electronic Products

Figure 63. Industrial Manufacturing

Figure 64. Aerospace

Figure 65. Other

Figure 66. World Semi-Aromatic Nylon Production Market Share by Application (2021-2032)

Figure 67. World Semi-Aromatic Nylon Production Value Market Share by Application (2021-2032)

Figure 68. World Semi-Aromatic Nylon Average Price by Application (2021-2032) & (US\$/Ton)

Figure 69. Semi-Aromatic Nylon Industry Chain

Figure 70. Semi-Aromatic Nylon Procurement Model

Figure 71. Semi-Aromatic Nylon Sales Model

Figure 72. Semi-Aromatic Nylon Sales Channels, Direct Sales, and Distribution

Figure 73. Methodology

Figure 74. Research Process and Data Source

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