

Global Polyamide In Electronic Protection Device Market Size Study, by Application (Connectors, Circuit Breakers, Fuses, Relays, Capacitors), by Material Type (Nylon 6, Nylon 66, Nylon 12, Nylon 46), by End-Use Industry (Automotive, Electronics, Industrial, Medical, Consumer Appliances), and Regional Forecasts 2022-2032

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Abstracts

The Global Polyamide in Electronic Protection Device Market is estimated at approximately USD 1.9 billion in 2023 and is expected to grow at a compound annual growth rate (CAGR) of 4.40% over the forecast period from 2024 to 2032. Polyamide materials are indispensable in the realm of electronic protection devices, offering superior durability, resistance, and versatility for applications that demand precision and safety. These materials underpin critical components such as connectors, circuit breakers, fuses, relays, and capacitors, safeguarding electronic systems against physical and environmental challenges.

Market expansion is propelled by the increasing demand for high-performance materials in sectors such as automotive, electronics, and medical industries. Nylon variants, including Nylon 6 and Nylon 66, remain pivotal due to their exceptional mechanical and thermal properties. Technological advancements in polyamide manufacturing, alongside growing investments in lightweight and efficient materials, further fuel industry growth. However, challenges such as fluctuating raw material prices and stringent environmental regulations pose potential roadblocks. On the bright side, innovations in bio-based and recyclable polyamides offer promising growth opportunities, aligning with global sustainability goals.

Regionally, North America holds a dominant position in the market, bolstered by its advanced electronics and automotive sectors. Europe follows closely, driven by robust regulatory frameworks emphasizing sustainability and innovation in material science. Meanwhile, the Asia-Pacific region is projected to witness the fastest growth, fueled by rapid industrialization, expanding consumer electronics markets, and burgeoning automotive industries in countries such as China, India, and South Korea.

Major market players included in this report are:

BASF SE

Arkema Group

DSM Engineering Plastics

DuPont de Nemours, Inc.

Solvay S.A.

LANXESS AG

Mitsubishi Chemical Corporation

Evonik Industries AG

Ascend Performance Materials

Celanese Corporation

SABIC

EMS-Chemie Holding AG

Toray Industries, Inc.

Huntsman Corporation

Dow Inc.

The detailed segments and sub-segments of the market are explained below:

By Application:

Connectors

Circuit Breakers

Fuses

Relays

Capacitors

By Material Type:

Nylon 6

Nylon 66

Nylon 12

Nylon 46

By End-Use Industry:

Automotive

Electronics

Industrial

Medical

Consumer Appliances

By Region:

North America:

U.S.

Canada

Europe:

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific:

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America:

Brazil

Mexico

Middle East & Africa:

Saudi Arabia

South Africa

Rest of Middle East & Africa

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of geographical landscapes with country-level insights for major regions.

Competitive landscape with detailed information on major players in the market.

Analysis of key business strategies and recommendations for future market approaches.

Examination of competitive market structures.

Demand-side and supply-side analysis of the market.

Contents

CHAPTER 1. GLOBAL POLYAMIDE IN ELECTRONIC PROTECTION DEVICE MARKET EXECUTIVE SUMMARY

- 1.1. Global Polyamide in Electronic Protection Device Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Application
 - 1.3.2. By Material Type
 - 1.3.3. By End-Use Industry
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL POLYAMIDE IN ELECTRONIC PROTECTION DEVICE MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
 - 2.3.1. Inclusion & Exclusion
 - 2.3.2. Limitations
 - 2.3.3. Supply Side Analysis
 - 2.3.3.1. Availability
 - 2.3.3.2. Infrastructure
 - 2.3.3.3. Regulatory Environment
 - 2.3.3.4. Market Competition
 - 2.3.3.5. Economic Viability (Consumer's Perspective)
 - 2.3.4. Demand Side Analysis
 - 2.3.4.1. Regulatory Frameworks
 - 2.3.4.2. Technological Advancements
 - 2.3.4.3. Environmental Considerations
 - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL POLYAMIDE IN ELECTRONIC PROTECTION DEVICE MARKET DYNAMICS

3.1. Market Drivers

- 3.1.1. Increasing Demand for Durable and Functional Materials
- 3.1.2. Advancements in Polyamide Manufacturing Technologies
- 3.1.3. Expanding Applications Across Key Industries

3.2. Market Challenges

- 3.2.1. Fluctuating Raw Material Prices
- 3.2.2. Stringent Environmental Regulations

3.3. Market Opportunities

- 3.3.1. Development of Bio-based and Recyclable Polyamides
- 3.3.2. Technological Innovations in Polyamide Applications
- 3.3.3. Expansion into Emerging Markets

CHAPTER 4. GLOBAL POLYAMIDE IN ELECTRONIC PROTECTION DEVICE MARKET INDUSTRY ANALYSIS

4.1. Porter's 5 Force Model

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.1.6. Futuristic Approach to Porter's 5 Force Model
- 4.1.7. Porter's 5 Force Impact Analysis

4.2. PESTEL Analysis

- 4.2.1. Political
- 4.2.2. Economical
- 4.2.3. Social
- 4.2.4. Technological
- 4.2.5. Environmental
- 4.2.6. Legal

4.3. Top Investment Opportunities

4.4. Top Winning Strategies

4.5. Disruptive Trends

4.6. Industry Expert Perspective

4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL POLYAMIDE IN ELECTRONIC PROTECTION DEVICE MARKET SIZE & FORECASTS BY APPLICATION 2022-2032

5.1. Segment Dashboard

5.2. Global Polyamide in Electronic Protection Device Market: Application Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)

5.2.1. Connectors

5.2.2. Circuit Breakers

5.2.3. Fuses

5.2.4. Relays

5.2.5. Capacitors

CHAPTER 6. GLOBAL POLYAMIDE IN ELECTRONIC PROTECTION DEVICE MARKET SIZE & FORECASTS BY MATERIAL TYPE 2022-2032

6.1. Segment Dashboard

6.2. Global Polyamide in Electronic Protection Device Market: Material Type Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)

6.2.1. Nylon

6.2.2. Nylon

6.2.3. Nylon

6.2.4. Nylon

CHAPTER 7. GLOBAL POLYAMIDE IN ELECTRONIC PROTECTION DEVICE MARKET SIZE & FORECASTS BY END-USE INDUSTRY 2022-2032

7.1. Segment Dashboard

7.2. Global Polyamide in Electronic Protection Device Market: End-Use Industry Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)

7.2.1. Automotive

7.2.2. Electronics

7.2.3. Industrial

7.2.4. Medical

7.2.5. Consumer Appliances

CHAPTER 8. GLOBAL POLYAMIDE IN ELECTRONIC PROTECTION DEVICE MARKET SIZE & FORECASTS BY REGION 2022-2032

8.1. North America Polyamide in Electronic Protection Device Market

- 8.1.1. U.S. Polyamide in Electronic Protection Device Market
 - 8.1.1.1. Application Breakdown Size & Forecasts, 2022-2032
 - 8.1.1.2. Material Type Breakdown Size & Forecasts, 2022-2032
 - 8.1.1.3. Functional Properties Breakdown Size & Forecasts, 2022-2032
 - 8.1.1.4. End-Use Industry Breakdown Size & Forecasts, 2022-2032
- 8.1.2. Canada Polyamide in Electronic Protection Device Market
 - 8.1.2.1. Application Breakdown Size & Forecasts, 2022-2032
 - 8.1.2.2. Material Type Breakdown Size & Forecasts, 2022-2032
 - 8.1.2.3. Functional Properties Breakdown Size & Forecasts, 2022-2032
 - 8.1.2.4. End-Use Industry Breakdown Size & Forecasts, 2022-2032
- 8.2. Europe Polyamide in Electronic Protection Device Market
 - 8.2.1. UK Polyamide in Electronic Protection Device Market
 - 8.2.2. Germany Polyamide in Electronic Protection Device Market
 - 8.2.3. France Polyamide in Electronic Protection Device Market
 - 8.2.4. Spain Polyamide in Electronic Protection Device Market
 - 8.2.5. Italy Polyamide in Electronic Protection Device Market
 - 8.2.6. Rest of Europe Polyamide in Electronic Protection Device Market
- 8.3. Asia-Pacific Polyamide in Electronic Protection Device Market
 - 8.3.1. China Polyamide in Electronic Protection Device Market
 - 8.3.2. India Polyamide in Electronic Protection Device Market
 - 8.3.3. Japan Polyamide in Electronic Protection Device Market
 - 8.3.4. Australia Polyamide in Electronic Protection Device Market
 - 8.3.5. South Korea Polyamide in Electronic Protection Device Market
 - 8.3.6. Rest of Asia Pacific Polyamide in Electronic Protection Device Market
- 8.4. Latin America Polyamide in Electronic Protection Device Market
 - 8.4.1. Brazil Polyamide in Electronic Protection Device Market
 - 8.4.2. Mexico Polyamide in Electronic Protection Device Market
 - 8.4.3. Rest of Latin America Polyamide in Electronic Protection Device Market
- 8.5. Middle East & Africa Polyamide in Electronic Protection Device Market
 - 8.5.1. Saudi Arabia Polyamide in Electronic Protection Device Market
 - 8.5.2. South Africa Polyamide in Electronic Protection Device Market
 - 8.5.3. Rest of Middle East & Africa Polyamide in Electronic Protection Device Market

CHAPTER 9. COMPETITIVE INTELLIGENCE

- 9.1. Key Company SWOT Analysis
 - 9.1.1. BASF SE
 - 9.1.2. Arkema Group
 - 9.1.3. Solvay S.A.

9.2. Top Market Strategies

9.3. Company Profiles

9.3.1. BASF SE

9.3.1.1. Key Information

9.3.1.2. Overview

9.3.1.3. Financial (Subject to Data Availability)

9.3.1.4. Product Summary

9.3.1.5. Market Strategies

9.3.2. Arkema Group

9.3.3. DSM Engineering Plastics

9.3.4. DuPont de Nemours, Inc.

9.3.5. Solvay S.A.

9.3.6. LANXESS AG

9.3.7. Mitsubishi Chemical Corporation

9.3.8. Evonik Industries AG

9.3.9. Ascend Performance Materials

9.3.10. Celanese Corporation

9.3.11. SABIC

9.3.12. EMS-Chemie Holding AG

9.3.13. Toray Industries, Inc.

9.3.14. Huntsman Corporation

9.3.15. Dow Inc.

CHAPTER 10. RESEARCH PROCESS

10.1. Research Process

10.1.1. Data Mining

10.1.2. Analysis

10.1.3. Market Estimation

10.1.4. Validation

10.1.5. Publishing

10.2. Research Attributes

12. LIST OF TABLES

- TABLE 1. Global Polyamide in Electronic Protection Device Market, Report Scope
- TABLE 2. Global Polyamide in Electronic Protection Device Market Estimates & Forecasts by Region 2022-2032 (USD Million/Billion)
- TABLE 3. Global Polyamide in Electronic Protection Device Market Estimates &

Forecasts by Application 2022-2032 (USD Million/Billion)

- TABLE 4. Global Polyamide in Electronic Protection Device Market Estimates & Forecasts by Material Type 2022-2032 (USD Million/Billion)

- TABLE 5. Global Polyamide in Electronic Protection Device Market Estimates & Forecasts by End-Use Industry 2022-2032 (USD Million/Billion)

- TABLE 6. Global Polyamide in Electronic Protection Device Market by Segment, Estimates & Forecasts, 2022-2032 (USD Million/Billion)

- TABLE 7. Global Polyamide in Electronic Protection Device Market by Region, Estimates & Forecasts, 2022-2032 (USD Million/Billion)

- TABLE 8. Global Polyamide in Electronic Protection Device Market by Segment, Estimates & Forecasts, 2022-2032 (USD Million/Billion)

- TABLE 9. Global Polyamide in Electronic Protection Device Market by Region, Estimates & Forecasts, 2022-2032 (USD Million/Billion)

- TABLE 10. Global Polyamide in Electronic Protection Device Market by Segment, Estimates & Forecasts, 2022-2032 (USD Million/Billion)

- TABLE 11. Global Polyamide in Electronic Protection Device Market by Region, Estimates & Forecasts, 2022-2032 (USD Million/Billion)

- TABLE 12. Global Polyamide in Electronic Protection Device Market by Segment, Estimates & Forecasts, 2022-2032 (USD Million/Billion)

- TABLE 13. Global Polyamide in Electronic Protection Device Market by Region, Estimates & Forecasts, 2022-2032 (USD Million/Billion)

- TABLE 14. Global Polyamide in Electronic Protection Device Market by Segment, Estimates & Forecasts, 2022-2032 (USD Million/Billion)

- TABLE 15. U.S. Polyamide in Electronic Protection Device Market Estimates & Forecasts, 2022-2032 (USD Million/Billion)

- TABLE 16. U.S. Polyamide in Electronic Protection Device Market Estimates & Forecasts by Application 2022-2032 (USD Million/Billion)

- TABLE 17. U.S. Polyamide in Electronic Protection Device Market Estimates & Forecasts by Material Type 2022-2032 (USD Million/Billion)

- TABLE 18. Canada Polyamide in Electronic Protection Device Market Estimates & Forecasts, 2022-2032 (USD Million/Billion)

- TABLE 19. Canada Polyamide in Electronic Protection Device Market Estimates & Forecasts by Application 2022-2032 (USD Million/Billion)

- TABLE 20. Canada Polyamide in Electronic Protection Device Market Estimates & Forecasts by Material Type 2022-2032 (USD Million/Billion)

- ...

This list is not complete; the final report does contain more than 100 tables. The list may be updated in the final deliverable.

12. LIST OF FIGURES

- FIG 1. Global Polyamide in Electronic Protection Device Market, Research Methodology
- FIG 2. Global Polyamide in Electronic Protection Device Market, Market Estimation Techniques
- FIG 3. Global Market Size Estimates & Forecast Methods
- FIG 4. Global Polyamide in Electronic Protection Device Market, Key Trends 2023
- FIG 5. Global Polyamide in Electronic Protection Device Market, Growth Prospects 2022-2032
- FIG 6. Global Polyamide in Electronic Protection Device Market, Porter's 5 Force Model
- FIG 7. Global Polyamide in Electronic Protection Device Market, PESTEL Analysis
- FIG 8. Global Polyamide in Electronic Protection Device Market, Value Chain Analysis
- FIG 9. Global Polyamide in Electronic Protection Device Market by Application, 2022 & 2032 (USD Million/Billion)
- FIG 10. Global Polyamide in Electronic Protection Device Market by Material Type, 2022 & 2032 (USD Million/Billion)
- FIG 11. Global Polyamide in Electronic Protection Device Market by End-Use Industry, 2022 & 2032 (USD Million/Billion)
- FIG 12. Global Polyamide in Electronic Protection Device Market by Region, 2022 & 2032 (USD Million/Billion)
- FIG 13. Global Polyamide in Electronic Protection Device Market by Segment, 2022 & 2032 (USD Million/Billion)
- FIG 14. Global Polyamide in Electronic Protection Device Market, Regional Snapshot 2022 & 2032
- FIG 15. North America Polyamide in Electronic Protection Device Market 2022 & 2032 (USD Million/Billion)
- FIG 16. Europe Polyamide in Electronic Protection Device Market 2022 & 2032 (USD Million/Billion)
- FIG 17. Asia-Pacific Polyamide in Electronic Protection Device Market 2022 & 2032 (USD Million/Billion)
- FIG 18. Latin America Polyamide in Electronic Protection Device Market 2022 & 2032 (USD Million/Billion)
- FIG 19. Middle East & Africa Polyamide in Electronic Protection Device Market 2022 & 2032 (USD Million/Billion)
- FIG 20. Global Polyamide in Electronic Protection Device Market, Company Market Share Analysis (2023)
- ...

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