

Polyamide in Electronics Protection Devices (EPD) Market by Product (PA 6, PA 66, PA 4,6, PA 612, and Others), Application (MCB, MCCB, Relays, Contactors, Terminal Blocks), and Region 2024-2032

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Abstracts

The global polyamide in electronics protection devices (EPD) market size reached US\$ 377.5 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 510.9 Million by 2032, exhibiting a growth rate (CAGR) of 3.32% during 2024-2032. The rapid expansion of the electrical and electronics industry, increasing product application in residential and commercial construction activities, and utilization of high-performance polyamide 4,6 (PA 4,6) to produce advanced MCCBs represent some of the key factors driving the market.

Polyamide is a synthetic polymer used in the production of electronic protection devices (EPD) due to its high strength, durability, and electrical insulation. It is widely used in circuit board encapsulation, contactors, cable and wire insulation, battery pack covers, miniature circuit breakers (MCBs), molded case circuit breakers (MCCBs), relays, and terminal blocks. As compared to other polymers in EPD, polyamide exhibits better dimensional stability, high thermal and chemical resistance, and excellent friction and wear properties. It is also a lightweight, easy-to-process, eco-friendly, and recyclable material that increases equipment safety, ensures reliable performance, and provides protection from extreme temperatures, vibrations, shocks, and humidity. As a result, polyamide in EPD finds extensive applications across the automotive, electrical and electronics, construction, consumer electronics, aerospace, defense, transportation, healthcare, power generation, and telecommunication industries.

Polyamide in Electronics Protection Devices (EPD) Market Trends:

The rapid expansion of the electrical and electronics industry is one of the primary

factors propelling the market growth. Polyamide-based EPDs, such as cases, conduit systems, terminal blocks, enclosures, and covers, are widely used to protect printed circuit boards (PCBs), batteries, cables, and other electronic components. In addition to this, the widespread product utilization in the consumer electronics industry to protect smartphones, tablets, laptops, gaming consoles, wearables, and audio systems is acting as another growth-inducing factor. Furthermore, the increasing product application in residential and commercial construction activities to prevent damages to electrical junction boxes, wiring, lighting system, and heating, ventilation, and air conditioning (HVAC) equipment is providing an impetus to the market growth. Additionally, the utilization of high-performance polyamide 4,6 (PA-4,6) to produce advanced MCCBs that can withstand high thermo-mechanical and electrical stress, provide flame retardant properties, and preserve the integrity of electrical components is positively influencing the market growth. Apart from this, the rising product adoption in the automotive industry to protect wiring harnesses, onboard electronics, connectors, motors, and sensors from overloads, short circuits, and other electrical faults is providing a thrust to the market growth. Moreover, the implementation of various government initiatives to promote the utilization of EPDs across industries to maintain safety standards and protect workers is facilitating the market growth. Other factors, including rising demand for lightweight and durable EPDs, extensive research and development (R&D) activities, increasing adoption of automation and robotics in industries, and the growing demand for electric vehicles (EVs), are anticipated to drive the market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global polyamide in electronics protection devices (EPD) market, along with forecasts at the global, regional, and country levels from 2024-2032. Our report has categorized the market based on product and application.

Product Insights:

PA 6
PA 66
PA 4,6
PA 612
Others

The report has provided a detailed breakup and analysis of the polyamide in electronics protection devices (EPD) market based on the product. This includes PA 6, PA 66, PA

4,6, PA 612, and others. According to the report, PA 6 represented the largest segment.

Application Insights:

MCB

MCCB

Relays

Contactors

Terminal Blocks

A detailed breakup and analysis of the polyamide in electronics protection devices (EPD) market based on the application has also been provided in the report. This includes MCB, MCCB, relays, contactors, and terminal blocks. According to the report, MCB accounted for the largest market share.

Regional Insights:

North America

United States

Canada

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Asia Pacific was the largest market for polyamide in electronics protection devices (EPD). Some of the factors driving the Asia Pacific polyamide in electronics protection devices (EPD) market included rising safety concerns, the implementation of various government initiatives, and rapid technological advancements.

Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global polyamide in electronics protection devices (EPD) market. Detailed profiles of all major companies have also been provided. Some of the companies covered include Advansix Inc., Ascend Performance Materials LLC, BASF SE, Koninklijke DSM N.V., DuPont de Nemours Inc, EMS-Chemie Holding AG, Huntsman Corporation, Lanxess AG, Nilit Ltd, UBE Corporation, etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Key Questions Answered in This Report

1. How big is the global polyamide in Electronics Protection Devices (EPD) market?
2. What is the expected growth rate of the global polyamide in Electronics Protection Devices (EPD) market during 2024-2032?
3. What are the key factors driving the global polyamide in Electronics Protection Devices (EPD) market?
4. What has been the impact of COVID-19 on the global polyamide in Electronics Protection Devices (EPD) market?
5. What is the breakup of the global polyamide in Electronics Protection Devices (EPD) market based on the product?
6. What is the breakup of the global polyamide in Electronics Protection Devices (EPD) market based on the application?
7. What are the key regions in the global polyamide in Electronics Protection Devices (EPD) market?
8. Who are the key players/companies in the global polyamide in Electronics Protection Devices (EPD) market?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL POLYAMIDE IN ELECTRONICS PROTECTION DEVICES (EPD) MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY PRODUCT

- 6.1 PA
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 PA
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast

6.3 PA 4,6

6.3.1 Market Trends

6.3.2 Market Forecast

6.4 PA

6.4.1 Market Trends

6.4.2 Market Forecast

6.5 Others

6.5.1 Market Trends

6.5.2 Market Forecast

7 MARKET BREAKUP BY APPLICATION

7.1 MCB

7.1.1 Market Trends

7.1.2 Market Forecast

7.2 MCCB

7.2.1 Market Trends

7.2.2 Market Forecast

7.3 Relays

7.3.1 Market Trends

7.3.2 Market Forecast

7.4 Contactors

7.4.1 Market Trends

7.4.2 Market Forecast

7.5 Terminal Blocks

7.5.1 Market Trends

7.5.2 Market Forecast

8 MARKET BREAKUP BY REGION

8.1 North America

8.1.1 United States

8.1.1.1 Market Trends

8.1.1.2 Market Forecast

8.1.2 Canada

8.1.2.1 Market Trends

8.1.2.2 Market Forecast

8.2 Asia-Pacific

8.2.1 China

- 8.2.1.1 Market Trends
- 8.2.1.2 Market Forecast
- 8.2.2 Japan
 - 8.2.2.1 Market Trends
 - 8.2.2.2 Market Forecast
- 8.2.3 India
 - 8.2.3.1 Market Trends
 - 8.2.3.2 Market Forecast
- 8.2.4 South Korea
 - 8.2.4.1 Market Trends
 - 8.2.4.2 Market Forecast
- 8.2.5 Australia
 - 8.2.5.1 Market Trends
 - 8.2.5.2 Market Forecast
- 8.2.6 Indonesia
 - 8.2.6.1 Market Trends
 - 8.2.6.2 Market Forecast
- 8.2.7 Others
 - 8.2.7.1 Market Trends
 - 8.2.7.2 Market Forecast
- 8.3 Europe
 - 8.3.1 Germany
 - 8.3.1.1 Market Trends
 - 8.3.1.2 Market Forecast
 - 8.3.2 France
 - 8.3.2.1 Market Trends
 - 8.3.2.2 Market Forecast
 - 8.3.3 United Kingdom
 - 8.3.3.1 Market Trends
 - 8.3.3.2 Market Forecast
 - 8.3.4 Italy
 - 8.3.4.1 Market Trends
 - 8.3.4.2 Market Forecast
 - 8.3.5 Spain
 - 8.3.5.1 Market Trends
 - 8.3.5.2 Market Forecast
 - 8.3.6 Russia
 - 8.3.6.1 Market Trends
 - 8.3.6.2 Market Forecast

8.3.7 Others

8.3.7.1 Market Trends

8.3.7.2 Market Forecast

8.4 Latin America

8.4.1 Brazil

8.4.1.1 Market Trends

8.4.1.2 Market Forecast

8.4.2 Mexico

8.4.2.1 Market Trends

8.4.2.2 Market Forecast

8.4.3 Others

8.4.3.1 Market Trends

8.4.3.2 Market Forecast

8.5 Middle East and Africa

8.5.1 Market Trends

8.5.2 Market Breakup by Country

8.5.3 Market Forecast

9 DRIVERS, RESTRAINTS, AND OPPORTUNITIES

9.1 Overview

9.2 Drivers

9.3 Restraints

9.4 Opportunities

10 VALUE CHAIN ANALYSIS

11 PORTERS FIVE FORCES ANALYSIS

11.1 Overview

11.2 Bargaining Power of Buyers

11.3 Bargaining Power of Suppliers

11.4 Degree of Competition

11.5 Threat of New Entrants

11.6 Threat of Substitutes

12 PRICE ANALYSIS

13 COMPETITIVE LANDSCAPE

13.1 Market Structure

13.2 Key Players

13.3 Profiles of Key Players

13.3.1 Advansix Inc.

13.3.1.1 Company Overview

13.3.1.2 Product Portfolio

13.3.1.3 Financials

13.3.1.4 SWOT Analysis

13.3.2 Ascend Performance Materials LLC

13.3.2.1 Company Overview

13.3.2.2 Product Portfolio

13.3.3 BASF SE

13.3.3.1 Company Overview

13.3.3.2 Product Portfolio

13.3.3.3 Financials

13.3.3.4 SWOT Analysis

13.3.4 Koninklijke DSM N.V.

13.3.4.1 Company Overview

13.3.4.2 Product Portfolio

13.3.4.3 Financials

13.3.4.4 SWOT Analysis

13.3.5 DuPont de Nemours Inc

13.3.5.1 Company Overview

13.3.5.2 Product Portfolio

13.3.5.3 Financials

13.3.5.4 SWOT Analysis

13.3.6 EMS-Chemie Holding AG

13.3.6.1 Company Overview

13.3.6.2 Product Portfolio

13.3.6.3 Financials

13.3.7 Huntsman Corporation

13.3.7.1 Company Overview

13.3.7.2 Product Portfolio

13.3.7.3 Financials

13.3.7.4 SWOT Analysis

13.3.8 Lanxess AG

13.3.8.1 Company Overview

13.3.8.2 Product Portfolio

13.3.8.3 Financials

13.3.8.4 SWOT Analysis

13.3.9 Nilit Ltd

13.3.9.1 Company Overview

13.3.9.2 Product Portfolio

13.3.10 UBE Corporation

13.3.10.1 Company Overview

13.3.10.2 Product Portfolio

13.3.10.3 Financials

13.3.10.4 SWOT Analysis

Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

List Of Tables

LIST OF TABLES

Table 1: Global: Polyamide in Electronics Protection Devices Market: Key Industry Highlights, 2023 & 2032

Table 2: Global: Polyamide in Electronics Protection Devices Market Forecast: Breakup by Product (in Million US\$), 2024-2032

Table 3: Global: Polyamide in Electronics Protection Devices Market Forecast: Breakup by Application (in Million US\$), 2024-2032

Table 4: Global: Polyamide in Electronics Protection Devices Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 5: Global: Polyamide in Electronics Protection Devices Market: Competitive Structure

Table 6: Global: Polyamide in Electronics Protection Devices Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Polyamide in Electronics Protection Devices Market: Major Drivers and Challenges

Figure 2: Global: Polyamide in Electronics Protection Devices Market: Sales Value (in Million US\$), 2018-2023

Figure 3: Global: Polyamide in Electronics Protection Devices Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 4: Global: Polyamide in Electronics Protection Devices Market: Breakup by Product (in %), 2023

Figure 5: Global: Polyamide in Electronics Protection Devices Market: Breakup by Application (in %), 2023

Figure 6: Global: Polyamide in Electronics Protection Devices Market: Breakup by Region (in %), 2023

Figure 7: Global: Polyamide in Electronics Protection Devices (PA 6) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 8: Global: Polyamide in Electronics Protection Devices (PA 6) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 9: Global: Polyamide in Electronics Protection Devices (PA 66) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 10: Global: Polyamide in Electronics Protection Devices (PA 66) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 11: Global: Polyamide in Electronics Protection Devices (PA 4,6) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 12: Global: Polyamide in Electronics Protection Devices (PA 4,6) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 13: Global: Polyamide in Electronics Protection Devices (PA 612) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 14: Global: Polyamide in Electronics Protection Devices (PA 612) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 15: Global: Polyamide in Electronics Protection Devices (Other Products) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 16: Global: Polyamide in Electronics Protection Devices (Other Products) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 17: Global: Polyamide in Electronics Protection Devices (MCB) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 18: Global: Polyamide in Electronics Protection Devices (MCB) Market Forecast:

Sales Value (in Million US\$), 2024-2032

Figure 19: Global: Polyamide in Electronics Protection Devices (MCCB) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 20: Global: Polyamide in Electronics Protection Devices (MCCB) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 21: Global: Polyamide in Electronics Protection Devices (Relays) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 22: Global: Polyamide in Electronics Protection Devices (Relays) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 23: Global: Polyamide in Electronics Protection Devices (Contactors) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 24: Global: Polyamide in Electronics Protection Devices (Contactors) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 25: Global: Polyamide in Electronics Protection Devices (Terminal Blocks) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 26: Global: Polyamide in Electronics Protection Devices (Terminal Blocks) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 27: North America: Polyamide in Electronics Protection Devices Market: Sales Value (in Million US\$), 2018 & 2023

Figure 28: North America: Polyamide in Electronics Protection Devices Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 29: United States: Polyamide in Electronics Protection Devices Market: Sales Value (in Million US\$), 2018 & 2023

Figure 30: United States: Polyamide in Electronics Protection Devices Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 31: Canada: Polyamide in Electronics Protection Devices Market: Sales Value (in Million US\$), 2018 & 2023

Figure 32: Canada: Polyamide in Electronics Protection Devices Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 33: Asia-Pacific: Polyamide in Electronics Protection Devices Market: Sales Value (in Million US\$), 2018 & 2023

Figure 34: Asia-Pacific: Polyamide in Electronics Protection Devices Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 35: China: Polyamide in Electronics Protection Devices Market: Sales Value (in Million US\$), 2018 & 2023

Figure 36: China: Polyamide in Electronics Protection Devices Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 37: Japan: Polyamide in Electronics Protection Devices Market: Sales Value (in Million US\$), 2018 & 2023

Figure 38: Japan: Polyamide in Electronics Protection Devices Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 39: India: Polyamide in Electronics Protection Devices Market: Sales Value (in Million US\$), 2018 & 2023

Figure 40: India: Polyamide in Electronics Protection Devices Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 41: South Korea: Polyamide in Electronics Protection Devices Market: Sales Value (in Million US\$), 2018 & 2023

Figure 42: South Korea: Polyamide in Electronics Protection Devices Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 43: Australia: Polyamide in Electronics Protection Devices Market: Sales Value (in Million US\$), 2018 & 2023

Figure 44: Australia: Polyamide in Electronics Protection Devices Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 45: Indonesia: Polyamide in Electronics Protection Devices Market: Sales Value (in Million US\$), 2018 & 2023

Figure 46: Indonesia: Polyamide in Electronics Protection Devices Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 47: Others: Polyamide in Electronics Protection Devices Market: Sales Value (in Million US\$), 2018 & 2023

Figure 48: Others: Polyamide in Electronics Protection Devices Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 49: Europe: Polyamide in Electronics Protection Devices Market: Sales Value (in Million US\$), 2018 & 2023

Figure 50: Europe: Polyamide in Electronics Protection Devices Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 51: Germany: Polyamide in Electronics Protection Devices Market: Sales Value (in Million US\$), 2018 & 2023

Figure 52: Germany: Polyamide in Electronics Protection Devices Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 53: France: Polyamide in Electronics Protection Devices Market: Sales Value (in Million US\$), 2018 & 2023

Figure 54: France: Polyamide in Electronics Protection Devices Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 55: United Kingdom: Polyamide in Electronics Protection Devices Market: Sales Value (in Million US\$), 2018 & 2023

Figure 56: United Kingdom: Polyamide in Electronics Protection Devices Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 57: Italy: Polyamide in Electronics Protection Devices Market: Sales Value (in

Million US\$), 2018 & 2023

Figure 58: Italy: Polyamide in Electronics Protection Devices Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 59: Spain: Polyamide in Electronics Protection Devices Market: Sales Value (in Million US\$), 2018 & 2023

Figure 60: Spain: Polyamide in Electronics Protection Devices Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 61: Russia: Polyamide in Electronics Protection Devices Market: Sales Value (in Million US\$), 2018 & 2023

Figure 62: Russia: Polyamide in Electronics Protection Devices Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 63: Others: Polyamide in Electronics Protection Devices Market: Sales Value (in Million US\$), 2018 & 2023

Figure 64: Others: Polyamide in Electronics Protection Devices Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 65: Latin America: Polyamide in Electronics Protection Devices Market: Sales Value (in Million US\$), 2018 & 2023

Figure 66: Latin America: Polyamide in Electronics Protection Devices Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 67: Brazil: Polyamide in Electronics Protection Devices Market: Sales Value (in Million US\$), 2018 & 2023

Figure 68: Brazil: Polyamide in Electronics Protection Devices Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 69: Mexico: Polyamide in Electronics Protection Devices Market: Sales Value (in Million US\$), 2018 & 2023

Figure 70: Mexico: Polyamide in Electronics Protection Devices Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 71: Others: Polyamide in Electronics Protection Devices Market: Sales Value (in Million US\$), 2018 & 2023

Figure 72: Others: Polyamide in Electronics Protection Devices Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 73: Middle East and Africa: Polyamide in Electronics Protection Devices Market: Sales Value (in Million US\$), 2018 & 2023

Figure 74: Middle East and Africa: Polyamide in Electronics Protection Devices Market: Breakup by Country (in %), 2023

Figure 75: Middle East and Africa: Polyamide in Electronics Protection Devices Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 76: Global: Polyamide in Electronics Protection Devices Industry: Drivers, Restraints, and Opportunities

Figure 77: Global: Polyamide in Electronics Protection Devices Industry: Value Chain Analysis

Figure 78: Global: Polyamide in Electronics Protection Devices Industry: Porter's Five Forces Analysis

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