

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

<https://marketpublishers.com/r/P0B2FF97FE40EN.html>

Date: April 2024

Pages: 136

Price: US\$ 3,899.00 (Single User License)

ID: P0B2FF97FE40EN

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?

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