

# **Conductive Polymers Market Report by Product (Acrylonitrile-butadiene-styrene (ABS), Polycarbonates, Polyphenylene-polymer (PPP) based Resins, Nylon, Inherently Conductive Polymers (ICP), and Others), Application (Capacitors, Anti-static Packaging, Batteries, Actuators and Sensors, Solar Energy, and Others), and Region 2024-2032**

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## **Abstracts**

The global conductive polymers market size reached US\$ 4.7 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 8.7 Billion by 2032, exhibiting a growth rate (CAGR) of 6.9% during 2024-2032.

Conductive polymers (CPs) are a specific group of organic materials that exhibit electrical and optical properties of both metals and semiconductors. They offer numerous advantages over carbon-based electrode materials, including low cost, high porosity, ease of synthesis, and low equivalent series resistance (ESR). CP electrodes deliver incredible potential energy, power density, and high specific capacitance due to their excellent intrinsic conductivity. Besides this, they are added at small concentrations to improve the resistance of marine paints against corrosion.

Conductive Polymers Market Trends:

As CPs are environmental-friendly, they are widely used as an alternative to metallic interfaces in the production of biomedical devices, such as sensors and tissue scaffolds, and artificial muscles and drugs controlled-release agents. The rising demand for these devices and other medical supplies for clinical diagnosis and surgical interventions on account of the growing prevalence of chronic diseases represents one of the key factors

bolstering the market growth. They are also integrated on a textile surface via plating, printing, coating, and other surface techniques to manufacture smart and interactive textiles. Apart from this, with the emergence of nanoscience, CPs are gaining traction in transparent solar cells. This, along with the rising sales of solar panels across the globe, is contributing to the market growth. Furthermore, the growing trend of miniaturized electronic devices like integrated circuits (ICs) and rechargeable batteries is also positively influencing the market. Additionally, CPs are being used for developing inexpensive, flexible organic electronics. This, in confluence with the escalating demand for consumer goods in the residential sector due to changing lifestyles and inflating income levels, is anticipated to drive the market in the coming years.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global conductive polymers market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on product and application.

#### Breakup by Product:

- Acrylonitrile-butadiene-styrene (ABS)
- Polycarbonates
- Polyphenylene-polymer (PPP) based Resins
- Nylon
- Inherently Conductive Polymers (ICP)
- Others

#### Breakup by Application:

- Capacitors
- Anti-static Packaging

Batteries

Actuators and Sensors

Solar Energy

Others

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

#### Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being 3M Company, Agfa-Gevaert N.V, Avient Corporation, Celanese Corporation, Heraeus Holding, KEMET Corporation, Parker Hannifin Corp., SABIC, Solvay and The Lubrizol Corporation.

#### Key Questions Answered in This Report

1. What was the size of the global conductive polymers market in 2023?
2. What is the expected growth rate of the global conductive polymers market during 2024-2032?
3. What are the key factors driving the global conductive polymers market?
4. What has been the impact of COVID-19 on the global conductive polymers market?

5. What is the breakup of the global conductive polymers market based on the product?
6. What is the breakup of the global conductive polymers market based on the application?
7. What are the key regions in the global conductive polymers market?
8. Who are the key players/companies in the global conductive polymers market?

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