

Organic Electronics Market Report by Component (Active, Passive), Material (Semiconductor, Conductive, Dielectric and Substrate), Application (Display, Lighting, Battery, Conductive Ink, and Others), and Region 2024-2032

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Abstracts

The global organic electronics market size reached US\$ 83.9 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 358.4 Billion by 2032, exhibiting a growth rate (CAGR) of 17.2% during 2024-2032.

Organic electronics is a subset of modern materials science that deals with the design, synthesis, formulation, characterization, and functions of organic molecules for engineering various electronic components and circuits. It is commonly fabricated from carbon-based molecular structures, nanotubes, polymers, and hybrid materials. In addition to this, organic electronics employ various semiconductor, conductive, substrate, and dielectric materials for device construction purposes. Compared to inorganic semiconductors, it offers higher thermal stability, optimal performance, reliability, and flexibility. On account of these properties, organic electronics is extensively deployed in various applications, including displays, lighting, solar panels, conductive inks, and photovoltaic cells.

Organic Electronics Market Trends:

The widespread adoption of organic electronics across manufacturing, automotive, security, and consumer electronic industries can be attributed to the increasing demand for eco-friendly, high-performance, and efficient semiconductors. This, along with the rising focus on advanced functionalities at reduced expenditures is primarily driving the market growth. Moreover, rising environmental consciousness and the increasing awareness amongst manufacturers regarding their advantages, such as biodegradable,

cost-effectiveness, and lightweight non-metallic components, are also propelling the market growth. Besides this, the large-scale incorporation of organic bioelectronics as a conductive polymer tool in biomedical devices is further contributing to the market growth. In line with this, significant technological advancements, such as the introduction of organic light-emitting diodes (OLEDs) and active-matrix light-emitting diodes (AMOLED) as the display technology for offering enhanced image quality, wider color range, higher brightness, and instant refresh rates at minimal energy consumptions are acting as other growth-inducing factors. Additionally, the extensive utilization of organic electronics for manufacturing batteries and films for displays that can be installed in curved television (TV) displays and foldable smartphones is positively stimulating the market growth. Apart from this, the rising integration of organic electronics in nanotechnology, textile and manufacturing sectors is further contributing to the market growth.

Key Market Segmentation:

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

Breakup by Component:

- Active
- Passive

Breakup by Material:

- Semiconductor
- Conductive
- Dielectric and Substrate

Breakup by Application:

- Display
- Lighting
- Battery
- Conductive Ink
- 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 AGC Inc., BASF SE, Covestro AG, DuPont de Nemours Inc., FUJIFILM Corporation, Heliatek GmbH, Merck KGaA, Novald GmbH (Samsung SDI Co. Ltd.), PolyIC GmbH & Co. KG (LEONHARD KURZ Stiftung & Co. KG), Sony Corporation and Universal Display Corporation.

Key Questions Answered in This Report

1. What was the size of the global organic electronics market in 2023?
2. What is the expected growth rate of the global organic electronics market during 2024-2032?

3. What are the key factors driving the global organic electronics market?
4. What has been the impact of COVID-19 on the global organic electronics market?
5. What is the breakup of the global organic electronics market based on the component?
6. What is the breakup of the global organic electronics market based on the material?
7. What is the breakup of the global organic electronics market based on the application?
8. What are the key regions in the global organic electronics market?
9. Who are the key players/companies in the global organic electronics market?

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