

Organic Electronic Market – Global Industry Size, Share, Trends, Opportunity, and Forecast. Segmented by Material (Semiconductor, Conductive and Dielectric & substrate), By Application (Display, Lighting, Battery, Conductive Ink and Others), By Region and Competition, 2020-2030F

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Abstracts

The Global Organic Electronic Market, valued at USD 85.06 Billion in 2024, is projected to experience a CAGR of 10.51% to reach USD 154.93 Billion by 2030. Organic electronics delineate a technological domain employing carbon-based molecules and polymers as core components for electronic devices, presenting inherent advantages of flexibility, light weight, and potential for reduced manufacturing expenses over traditional inorganic alternatives. Market growth is primarily driven by the escalating demand for flexible, lightweight, and eco-conscious electronic products. Further impetus comes from ongoing material science advancements improving electrical properties and stability, alongside the increasing adoption of sustainable technologies and the requirement for high-performance displays in consumer electronics.

Key Market Drivers

The escalating demand for flexible and lightweight electronic devices serves as a primary driver for the organic electronic market's expansion. Consumers seek portable, durable, and conformable gadgets that rigid electronics cannot fully provide. Organic materials, with inherent flexibility and reduced weight, offer solutions for innovative designs like foldable smartphones and advanced wearables. Their integration onto various substrates enables novel form factors and enhanced user experiences. According to FlexEnable, in June 2024, organic thin-film transistors (OTFT) entered

mass production in a consumer device, industrializing flexible organic semiconductors. This trend also aligns with energy efficiency.

Key Market Challenges

The inherent environmental sensitivity of organic materials presents a significant impediment to the widespread integration and growth of the Global Organic Electronic Market. Organic components are susceptible to degradation from moisture, oxygen, and heat, which directly reduces their operational reliability and shortens device lifespans. This vulnerability restricts the deployment of organic electronic devices in demanding environments and applications requiring extended durability, such as certain industrial sensors or automotive components. The perceived risk of premature device failure impacts investment and slows adoption across various sectors.

Key Market Trends

Advancements in printable electronics manufacturing techniques are significantly transforming the organic electronic market by enabling cost-effective, high-volume production of diverse devices. These innovations allow for the precise deposition of organic materials onto various flexible substrates, moving beyond traditional batch processing to more efficient roll-to-roll methods. This scalability reduces manufacturing costs and expands the potential for integrating organic electronics into everyday products, from smart packaging to large-area sensors. The increased efficiency and versatility offered by advanced printing methods accelerate market penetration by providing manufacturers with the means to produce customized, lightweight, and thin electronic components at competitive prices.

Key Market Players

Merck Group

Sumitomo Corporation

BASF SE

H.C. Starck Tungsten GmbH

PolyIC GmbH & Co. KG

Evonik Industries AG

AGC Group

Novaled GmbH

Covestro AG

Sumitomo Chemical Co., Ltd.

Report Scope:

In this report, the Global Organic Electronic Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Organic Electronic Market, By Material:

Semiconductor

Conductive

Dielectric & substrate

Organic Electronic Market, By Application:

Display

Lighting

Battery

Conductive Ink

Others

Organic Electronic Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Asia Pacific

China

India

Japan

Australia

South Korea

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the Global Organic Electronic Market.

Available Customizations:

Global Organic Electronic Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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