

Printed Electronics Market by Printing Technology (Screen, Inkjet, Flexographic, Gravure Printing), Material (Inks, Substrates), Resolution (Below 100 Lines/CM, 100-200 Lines/CM, Above 200 Lines/CM) and Geography - Global Forecast to 2030

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Report description:

The global printed electronics market is expected to grow from USD 19.46 billion in 2025 to USD 39.85 billion by 2030, at a compound annual growth rate (CAGR) of 15.4% during the forecast period. Due to the rising preference for flexible, lightweight, and cost-efficient electronic components across industries. Printed electronics enable innovative applications such as flexible displays, wearable devices, smart packaging, and advanced sensors that traditional rigid electronics cannot support. Their ability to reduce material usage, lower production costs, and allow large-scale customization makes them highly attractive for manufacturers. The rapid growth of the Internet of Things (IoT), electric vehicles, and consumer electronics is further amplifying their adoption. Additionally, advancements in printing technologies are enhancing performance and durability, making printed electronics a mainstream choice. This trend is expected to significantly boost market growth during the forecast period.

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"Lighting application to register highest CAGR in printed electronics market during forecast period"

The lighting application segment is expected to grow at the highest CAGR in the printed electronics market during the forecast period. This growth is primarily driven by the increasing adoption of OLED lighting solutions in automotive, consumer electronics, and architectural applications. Printed lighting offers advantages such as flexibility, lightweight design, energy efficiency, and enhanced design freedom, making it ideal for modern, sustainable applications. The demand for innovative lighting in smart homes, wearable devices, and next-generation vehicles is further fueling this trend. Additionally, declining costs of materials and advancements in printing techniques are boosting large-scale deployment of printed lighting solutions, positioning this segment as a major growth driver in the market.

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"Inkjet printing technology to grow at highest CAGR in printed electronics market during forecast period"

The growth of the inkjet printing technology is attributed to its high precision, material efficiency, and ability to print complex patterns without requiring masks or plates. Inkjet printing is widely used for prototyping and small-to-medium production runs, making it suitable for applications in flexible displays, sensors, RFID tags, and medical devices. Its compatibility with a wide range of substrates and conductive inks further enhances its adoption. Moreover, the increasing demand for cost-effective and customizable printing methods in consumer electronics, automotive, and healthcare industries is driving the rapid growth of this segment. Continuous advancements in ink formulations and printhead technologies are expected to further accelerate inkjet printing adoption in the printed electronics market.

"China to account for largest share of Asia Pacific printed electronics market by 2030"

China is expected to hold the largest share in the Asia Pacific printed electronics market during the forecast period. This dominance is driven by its strong electronics manufacturing base, large consumer demand, and extensive adoption of advanced technologies across industries. The country is a global hub for consumer electronics, automotive, and semiconductor production, which are key end users of printed electronics. Additionally, government initiatives supporting digitalization, renewable energy, and electric vehicle adoption are further boosting the demand. China also benefits from significant investments in R&D and local production capabilities, reducing reliance on imports. With its vast industrial ecosystem and expanding applications in IoT and smart devices, China is set to remain the leading market in the region.

Extensive primary interviews were conducted with key industry experts in the printed electronics market space to determine and verify the market size for various segments and subsegments gathered through secondary research. The breakup of primary participants for the report is shown below:

The study contains insights from various industry experts, from component suppliers to Tier 1 companies and OEMs. The breakup of the primaries is as follows:

-□By Company Type: Tier 1 - 20%, Tier 2 - 55%, and Tier 3 - 25%

-□By Designation: C-level Executives - 50%, Directors - 25%, and Others - 25%

-□By Region: North America - 60%, Europe - 20%, Asia Pacific - 10%, and RoW - 10%

Notes: RoW includes the Middle East, Africa, and South America. Other designations include sales & marketing executives and researchers. The three tiers of the companies are defined based on their total revenue as of 2024; Tier 1: revenue more than or equal to USD 500 million, Tier 2: revenue between USD 100 million and USD 500 million, and Tier 3: revenue less than or equal to USD 100 million.

DuPont (US), BASF (Germany), Agfa-Gevaert Group (Belgium), Henkel AG & Co. KGaA (Germany), NovaCentrix (US), SAMSUNG (South Korea), LG DISPLAY CO., LTD. (South Korea), Molex (US), Nissha Co., Ltd (Japan), and E INK HOLDINGS INC. (Taiwan) are some key players in the printed electronics market.

The study includes an in-depth competitive analysis of these key players in the printed electronics market, with their company profiles, recent developments, and key market strategies.

Study Coverage:

This research report categorizes the printed electronics market based on printing technology (Inkjet printing, screen printing, flexographic printing, gravure printing, and others), material (Ink, substrate), resolution (below 100 lines/CM, 100 to 200 lines/CM, above 200 lines/CM), application (displays, RFID tags, batteries, photovoltaic cells, sensors, lighting, and other applications), End use industry (automotive & transportation, healthcare, consumer electronics, aerospace & defense, construction & architecture, retail & packaging, and other end use industries), and region (North America, Europe, Asia Pacific and RoW). The report describes the major drivers, restraints, challenges, and opportunities pertaining to the printed electronics market and forecasts the same till 2030. The report also consists of leadership mapping and analysis of all the companies included in the printed electronics ecosystem.

Key Benefits of Buying the Report

The report will help the market leaders/new entrants in this market by providing information on the closest approximations of the revenue numbers for the overall printed electronics market and the subsegments. This report will help stakeholders understand

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the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

- Analysis of key drivers (Increased demand for printed electronic products in automotive & transportation, Growth of consumer electronics industry, Increased adoption of IoT by end-use industries, and Significant cost advantages offered by printed electronics) restraints (high investment cost), opportunities (Promising newer applications of printed electronics in healthcare, and smart packaging to create lucrative growth opportunities for printed electronics)and challenges (Inadequate knowledge of appropriate material and design selection for smart building applications) influencing the growth of the printed electronics market
- Product Development/Innovation: Detailed insights into upcoming technologies, research and development activities, and the latest product and service launches in the printed electronics market
- Market Development: Comprehensive information about lucrative markets - the report analyzes the printed electronics market across varied regions.
- Market Diversification: Exhaustive information about new products and services, untapped geographies, recent developments, and investments in the printed electronics market

- Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players, such as DuPont (US), BASF (Germany), Agfa-Gevaert Group (Belgium), Henkel AG & Co. KGaA (Germany), and NovaCentrix (US) in the printed electronics market

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