

Display Materials Market by Material (Metal Oxide, a-Silicon, LTPS, PET, PEN, Photonic Crystals), Technology (OLED, LED, TFT-LCD, LED-LCD, Plasma, LCOS, DLP), Application (Conventional, 3D, Transparent, Flexible) & Geography - Global Forecast to 2013 - 2020

<https://marketpublishers.com/r/DD8035A41CFEN.html>

Date: March 2014

Pages: 264

Price: US\$ 5,650.00 (Single User License)

ID: DD8035A41CFEN

Abstracts

The role of dielectric display materials in display panels has evolved so as to meet the changing requirements of the new and more advanced chip designs and packaging technologies. Dielectric materials are an integral part of the display panels that define the nature and the role of the displays. The technological innovations, research, and the fabrication processes of the materials and displays, altogether, have propelled the display industry to greater heights. As the consumers demand more functionality in lighter and user-friendly devices, more and more sophisticated materials are being discovered and designed for the fabrication of the displays.

The research published on display materials covers significant game-changing materials in the display panels that are from components such as electrodes, substrates, and encapsulation layers; these materials define whether the display will be a LCD, LED, OLED, TFT, flexible, transparent, or 3D. There are several important trends which have been driving the technological innovations in the display industry since its early days, and which, directly or indirectly, are driving the display materials market, currently. These trends include image quality, screen size, portability, power savings, interconnectivity, user-friendliness. While these trends still remain as strong undercurrents, new drivers are being introduced such as, the need for the flexible, wearable, foldable, transparent, and 3D technologies that will play a more prominent role in shaping the display industry.

The display material study also talks about the different applications in which the materials are incorporated that are in conventional displays, flexible displays, transparent displays, and 3D displays. The technological segmentation that is described in the study includes LCD displays, TFT-LCD displays, LED displays, OLED displays, liquid crystals on silicon displays (LCoS), plasma displays, flexible displays, and so on

Lastly, the dielectric display materials research study is segmented on the basis of geography in to North America, Europe, the Asia-Pacific (APAC), and Rest of the World (ROW).

Apart from the market segmentation, analysis and the respective data, the report also includes qualitative analysis of various market dynamics such as, drivers, restraints, opportunities, burning issues, and winning imperatives. The report includes profiles of prominent market players in the display materials segment and display manufacturers with their respective company market share analysis.

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About

Dielectric materials are electrical insulators that have the ability to get highly polarized by an application of an electrical field. The electrons within the dielectric materials get displaced from equilibrium on the application of an electric field; and in some applications, the electrons may also get aligned to the applied electric field without passing through the material. On the other hand, when the electric field is removed, the material returns to its original state. The report mainly focuses on the dielectric materials that are used in the display applications, and the increased use of dielectrics, with the introduction of flexible, rollable, and bendable displays. The end user demand for dielectrics arises from different display devices such as smart phones, tablets, laptops, TV's, E-papers, and others.

The report deals with all the drivers, restraints, and opportunities with respect to the dielectric materials market, which are helpful in identifying the trends and key success factors for the industry. The report includes qualitative analysis of the market, and SWOT analysis of the major players. The report profiles all the major companies active in the field of dielectric and display applications. This report provides the competitive landscape of the key players, which covers all key growth strategies, and the recent developments that directly or indirectly hamper the market. The report also formulates the industry trends with emphasis on the market timeline and technology roadmap; and the market and product life cycle analysis. Lastly, the dielectric materials market is segmented on the basis of geography across North America, Europe, the Asia-Pacific (APAC), and ROW (Rest of the World). The market is also segmented on the basis of the different display technologies and their applications in various displays.

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