Functional Printing Market By Materials (Substrates, Ink, Conductors), By Technology (Ink-jet, Screen, Gravure printing), By Displays (RFID, Displays, ISS) - Forecast (2015 - 2020)

Description: Functional Printing, as per industry experts, is defined as deposition of a printable substance on a substrate that creates an active or passive functionality beyond traditional graphics. The resultant product would have unique features to sense or control conductivity, resistivity, thermo-chromic reactions, fluid dynamics and so on. The market report consists of detailed study on Functional Printing Market between 2015 and 2020 based on several segments including type of materials, printing techniques, printed components & systems and geography.

The Functional Printing market based on types of materials has been segmented into four divisions including substrates, conductors, dielectrics/insulators and functional coatings encompassing semiconductors, encapsulation and coating materials. A substrate is a solid substance or medium used as a base material to which other substances are applied that adheres to its surface. Conductors are the materials that permit the electrons to pass through them, thus they have high electrical conductivity. Dielectric materials are poor conductors of electricity and these inks are used as coatings for protection of conductive materials. Semi-conductor is a solid substance, which possesses an electrical conductivity between a conductor and an insulator due to the addition of impurities. Encapsulants provide protection to the end products by covering them with the films made of encapsulation materials.

Following this, the Functional printing market has been categorized based upon printing techniques involved such as inkjet printing, screen printing and gravure printing while other printing and deposition techniques such as coatings, aerosol jet, flexography and lithography have been segmented into others section.

The Functional printing market in 2015 was $6.9 billion. This market is analyzed to grow from $8.2 billion in 2015 to $25.4 billion by 2020 with a CAGR of 25.3%.

Subsequently, the Functional Printing Market thoroughly covered all the related printed components and systems. The components has been further classified into electronic components, sensors, lighting, photovoltaic, display and printed batteries and conductive tracks while the systems section encompasses several integrated smart systems such as smart tags, smart cards, diagnostic labels, functional packaging and many others. Functional components utilize several printing techniques for their fabrication to obtain certain functionalities.

The last segment provides a complete analysis of functional printing market based on following geographic areas: Americas, Europe, Asia-Pacific (APAC) and Rest of the World (RoW). These geographies are further classified into countries holding prominent share in the functional printing market for the forecast period.

Apart from this, major material suppliers, OEMs, ODMs and end user manufacturers such as AGFA, BASF, 3D-Micromac AG, Novacentrix, Thinfilm Electronics, Kodak and many others have been profiled. The company profiles give a glimpse of their business overview, key product lines, financials along with strategy and important developments happened in the company pertaining to functional Printing market in the period 2011 to 2015.

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