

## **Display Dielectric Material Market By Technology (LCD, LED, OLED, TFT-LCD, Others), By Application (Transparent, Conventional, 3D, Flexible Display): Global Opportunity Analysis and Industry Forecast, 2023-2032**

Market Report | 2023-05-01 | 290 pages | Allied Market Research

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### **Report description:**

The global dielectric display materials market is envisioned to garner \$113.1 billion by 2032, growing from \$53.3 billion in 2022 at a CAGR of 7.8% from 2023 to 2032.

A display dielectric is used in electronic displays including liquid crystal displays (LCDs) and organic light-emitting diode (OLED) displays. Providing physical insulation for the display is the main function of the display dielectric material. Dielectric materials can store electrical energy in an electric field and have a high electrical resistance. A display's dielectric material aids in the control of the electric fields used to illuminate the pixels. This produces high-quality photos as a result.

Ceramics, liquid crystals, paper, mica, dielectric gases, etc. are some of the types of the dielectric materials. The performance requirements and manufacturing process, among other factors, influence the choice of dielectric materials used in displays. Breakdown voltage, dielectric constant, dielectric polarization, and thermal stability are the main properties of dielectric materials. Development of novel dielectric materials with enhanced capabilities to support cutting-edge display technology is the objective of dielectric materials research.

One of the key factors propelling the market for display dielectric materials is the rising demand for LCD and OLED displays. The need for dielectric materials rising along with the demand for LCDs and OLEDs. Dielectric materials are crucial in the production of LCDs, OLEDs, LEDs, and other display types. The need for dielectric materials is expanding as a result of the growing demand for high-resolution screens with accurate color and good clarity. High dielectric constant and low loss tangent dielectric materials are being used in highly sensitive and precise touch screen capacitive displays. The rising popularity of flexible screens is another factor driving the demand for dielectric materials that can resist high temperatures and provide improved insulation.

Despite the display industry's growing need for dielectric materials, some significant obstacles may restrain market expansion. The high price of dielectric materials, which can prevent their usage in mass production, is one such significant impediment. Furthermore, it is challenging to source dielectric materials with the properties required for the creation of cutting-edge display

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technologies.

Due to the growing need for cutting-edge displays, there are ample opportunities in the market for display dielectric materials. Dielectric materials that can endure repeated bending and stretching without losing their properties are in higher demand. The development of 5G technology, which requires the use of dielectric materials with high dielectric constant and low loss tangents, is also expected to offer ample growth opportunities. It is also anticipated that technological developments, such as the creation of energy-efficient displays, would open up new possibilities for investments in the display dielectric materials market.

The COVID-19 pandemic has had significant impact on the market for dielectric display materials. As a result of the COVID-19 outbreak's uncertainties, several businesses around the world experienced serious financial losses. The market for display dielectric materials was moderately impacted by the pandemic. Due to a drop in consumer electronics demand during the early months of the outbreak, there was less of a demand for dielectric materials. The demand for the dielectric materials used in the displays was also hampered by supply chain issues, the closure of manufacturing facilities, and a global economic recession. But due to the outbreak, many people chose to work remotely. As a result, there was a noticeable rise in the demand for smartphones and laptops. The demand for dielectric materials used in display applications consequently rose.

The key players profiled in this report include Corning Incorporated, Merck KGaA, DuPont, SAMSUNG SDI CO., LTD., Nippon Chemical Industrial CO., LTD., SAKAI CHEMICAL INDUSTRY CO., LTD., LG Chem, DONGJIN SEMICHEM CO LTD., Nitto Denko Corporation, and ENF Technology. The market players are continuously striving to achieve an upper hand in this competitive market using strategies such as collaborations and acquisitions.

#### Key Benefits For Stakeholders

- This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the display dielectric material market analysis from 2022 to 2032 to identify the prevailing display dielectric material market opportunities.
- The market research is offered along with information related to key drivers, restraints, and opportunities.
- Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.
- In-depth analysis of the display dielectric material market segmentation assists to determine the prevailing market opportunities.
- Major countries in each region are mapped according to their revenue contribution to the global market.
- Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.
- The report includes the analysis of the regional as well as global display dielectric material market trends, key players, market segments, application areas, and market growth strategies.

#### Key Market Segments

##### By Technology

- LCD
- LED
- OLED
- TFT-LCD
- Others

##### By Application

- Transparent
- Conventional
- 3D
- Flexible Display

##### By Region

- North America
- U.S.
- Canada
- Mexico
- Europe

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- Germany
- UK
- France
- Spain
- Italy
- Rest of Europe
- Asia-Pacific
- China
- Japan
- India
- South Korea
- Australia
- Rest of Asia-Pacific
- LAMEA
- Brazil
- United Arab Emirates
- Saudi Arabia
- South Africa
- Rest of LAMEA
- Key Market Players
- Corning Incorporated
- Merck KGaA
- DuPont
- SAMSUNG SDI CO.,LTD.
- Nippon Chemical Industrial CO., LTD.
- SAKAI CHEMICAL INDUSTRY CO.,LTD.
- LG Chem
- DONGJIN SEMICHEM CO LTD.
- Nitto Denko Corporation
- ENF Technology

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