

## Report Information

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# Transparent Conductive Films Market Size, Share, Growth and Forecast to 2030

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## Description:

## Transparent Conductive Films Market Overview

Transparent Conductive Films Market is projected to be worth USD 12.10 billion by 2030, registering a CAGR of 10.7% during the forecast period (2022 - 2030). The increasing use of transparent conductive films in wearable devices for touch panels is propelling the market. Because of their decreased resistance and flexibility, transparent conductive films are perfect for light control windows and organic photovoltaics. The strong need for entertainment systems and human-machine interfaces in automobiles is expected to drive transparent conductive films in prototype dashboards. Transparent conductive films are increasingly being used on vehicle steering wheels, seatbacks, automotive control panels, and entertainment panels, expected to drive market expansion.

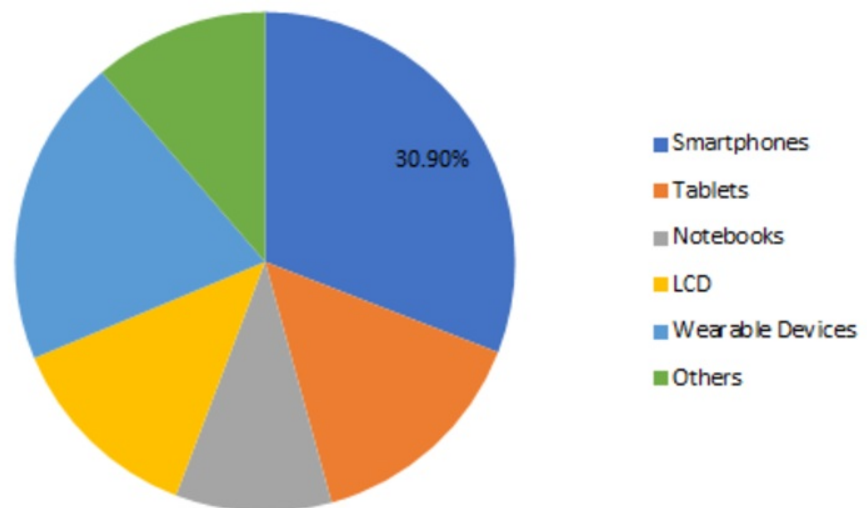
The main drivers of this market are the falling cost of smartphones, increased acceptance of touch UI interface devices, low power consumption, reduced reflection, thinness, flexibility, and resilience. The two main constraints limiting the market growth are the lack of a one-size-fits-all solution and the multitude of possibilities for a single application. In the upcoming years, displays and photovoltaic applications hold many promises for TCF applications. Moreover, increased demand for tablet PCs and notebooks will propel the market throughout the forecast period. However, the many issues involved with the production of transparent conductive films and the high operational costs associated with conductive film manufacturing may act as major restrictions on the transparent conductive films market's growth rate. On the other hand, the market for transparent conductive films may be hampered by price fluctuations in raw materials during the forecast period.

### Key Players:

Some of the prominent players in the Global Transparent Conductive Films Market are

- Nitto Denko Corporation (Japan),
- Teijin Ltd (Japan),
- TDK Corporation (Japan),
- Toyobo Co., Ltd (Japan),
- Gunze (Japan),
- Cambrios Technologies Corporation (US),
- Canatu OY (Finland),
- C3nano (China),
- Dontech Inc (US),
- Chasm Technologies, Inc (US),
- ILJIN display Co., Ltd (South Korea),
- Hitachi Chemical Company, Ltd. (Japan),
- Evaporated Coatings, Inc (US),
- Eikos Inc (US), and
- Max Film, Inc (India), among others.

### Transparent Conductive Films Market Share, by Application, 2017 (%):



#### Regional Analysis:

The growth of the global market is attributed to the increasing demand for recreational vehicles and rising vehicle ownership in developing countries such as India, South Korea, Brazil, Indonesia, and Mexico. In Asia-Pacific, consumers are demanding infotainment system in automobiles that offer enhanced driving experience creating the vehicles smart and safe. Furthermore, the increasing number of road accidents in Asia-Pacific due to congestion and a large number of vehicles on the road is expected to boost the demand for infotainment system for real-time monitoring, which positively is expected to favor the demand for transparent conductive films in Asia-Pacific. The expanding automotive industry in North America owing to increased demand for luxurious cars along with rising expenditure on the implementation of advanced technology are expected to drive the growth of the Transparent Conductive Films Market in the region.

#### Market Segmentation:

The Transparent Conductive Films Market has been segmented based on Material, Application and Region.

**Based on Material**, the global market has been segmented into indium tin oxide on glass, indium tin oxide on PET, silver nanowire, metal mesh, carbon nanotubes, and others. Metal mesh segment is expected to register a significant CAGR owing to its high mechanical strength, conductivity, and temperature resistant properties.

**Based on Application**, the global market has been divided into smartphones, tablets, notebooks, LCD, wearable devices, and others. The wearable devices segment is estimated to register a healthy CAGR due to the growing dependency of consumers on smart devices for entertainment, information, healthcare, and fitness purposes. **Recent Development**

- **Mar 2022** Panasonic Corporation reported that its Industry Company had developed a double-sided full wiring transparent conductive film with low resistance and high transmissivity for the first time in the industry, utilizing its unique roll-to-roll fabrication technology. Recently, increasing image quality and larger touch displays have necessitated the creation of a transparent conductive film with superior characteristics, which has led to the continuous development of a metal mesh. Panasonic's original roll-to-roll fabrication approach allowed for a wiring width of 2 μm, which was impossible to achieve with traditional etching procedures and a high aspect ratio, resulting in a transparent conductive film with low resistance great transmissivity.

#### Intended Audience

- Transparent Conductive Film Manufacturers
- Traders and Distributors of Transparent Conductive Films
- Research and Development Institutes
- Potential Investors
- Raw Material Suppliers
- Nationalized Laboratories

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