

Some substances emit light when stimulated by light or radioactive rays, which are called fluorescent materials. Toshiba Materials has developed fluorescent materials on the basis of CRTs, fluorescent lamps and supplies GOS scintillators, Intensifying Screens. Fluorescent Screens and Inorganic Electroluminescent (EL) Panels for general industrial use, medical use and electronic use such as hand-held device displays.

Inorganic Electroluminescent (EL) Panels



Electroluminescent (EL) panels are surface light sources that are activated by charging an alternative current to phosphors. Toshiba Materials offers thin and flexible EL panels for LCD back lights of various-sized displays to meet customers' requests.

[Advantages]

- Thin and light: Our EL panels are 0.7 mm thick and very suitable for reducing the space needed for devices that require high-density mounting.
- Flexible structure enabling deformation and curved surface lighting
- High-efficiency lighting (EL panels are high-efficiency lighting by minimal heat loss. They work in combination with batteries and miniature inverters.)
- High reliability (EL panels have vibration resistance with no abrupt loss of brightness.)

Product Specifications

Item	Unit	White	Green	Activation conditions
Brightness	Cd/m ²	70	80	AC 100V 400Hz Sine Wave
Chromaticity	x	0.33	0.21	
	y	0.39	0.48	
Current *	A/m ²	1.1	1.2	
power consumption *	W/m ²	20	20	
Half-life period of brightness	h	3000	4000	

* per unit area

Emission colors: white, blue-green, green and yellow

[Applications]

- Simple display by collecting color segments / Instrument panels
- Back lights for LCDs / Wrist watches / Personal Data Assistants (PDAs) / Handy terminals / Office automation facilities / MD players / Digital players
- Light sources of lighting / Back light of Cellular phone key boards / Power switch for lighting / Exhibition posters
- Others / Signals and automobile decorations

