



ITO Coated PEN Sheet

USER MANUAL

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Working

The ITO Coated PEN film is coated by Indium tin oxide over a Polyethylene naphthalate(PEN) transparent film. Polyethylene naphthalate film is used as a substrate, which has high transparency, high thermal stability, low moisture permeability, and high chemical stability. The sheet resistance is less than 15 ohms/ sq. Price lists are available for standard size sheets.

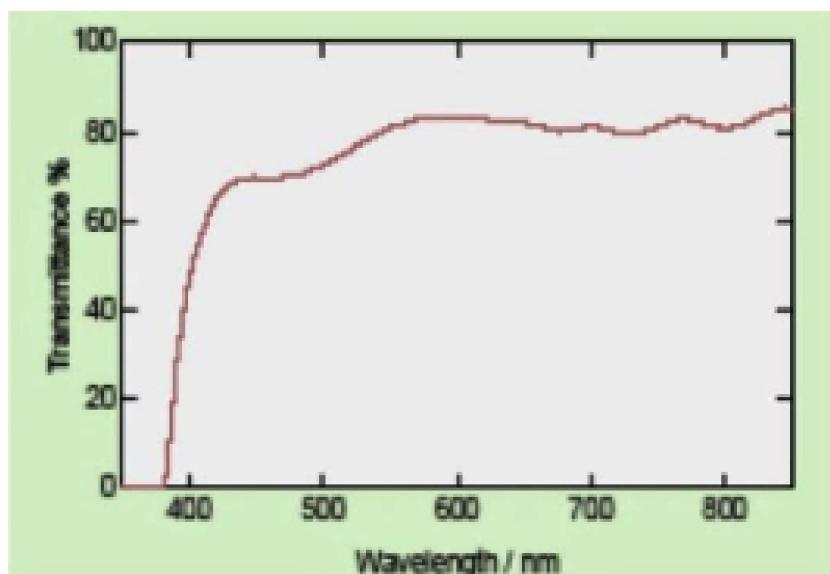
■ Product Series: TIPEN

Characteristic of PEN Film

Characteristic	Test Method	Values
Tensile Strength	Base on JLS C-2318	280 MPa
Tensile Elongation	Base on JLS C-2318	90 %
Consecutive Use Temperature (mechanical)	UL-746B	160 °C
Consecutive Use Temperature (electrical)	UL-746B	180 °C
Glass Transition Point	TDFJ method by DMA	1550 °C
Melting Point	DSC	269 °C
Breakdown Voltage	JIS C-2318	300 Kv/mm
Dielectric Constant (1KHz)	JIS C-2318	2.9
Absorbing Water Rate	TDFJ method	0.3 %
Density	JIS C-2151	1.36 g/cm ³
Flame Resistance	UL-94	VTM-2

Specifications

Substrate	Polyethylene naphthalate
Thickness of Film	0.125mm
Transmission	>80% @ 555nm
Sheet resistance	<15 ohms/sq
Purity	99.%
Colour	Transparent
Max Dimension	300mm x 300mm



Size Variant

50mm x 50mm | 100mm x 100mm | 200mm x 100mm | 200mm x 200mm
300mm x 300mm

■ Important Note:

1. Customization can be provided as per size only.

AppliCations

1. Touch screens
2. Position Sensors
3. Electroluminescent lamps
4. Electrophoretic Displays
5. Applications of electromagnetic shielding
6. Liquid crystal devices
7. Use of solar cell and display technology

Storage And Stability

This product should be stored at room temperature and Pressure, and its stability is indefinite. It should be placed in a clean environment.

Precautions and Disclaimer

These products are for R&D and industrial use, not for drug, household, personal, or other uses.

Packaging

It is supplied in bundles with highly-protective layers between individual slides within a light-protected, moisture-free, specially manufactured paper sheet.

Handling

At the time of sheet handling, the researcher should use powder-free non-latex gloves, which should be handled carefully. While experimenting, if researched using a substrate with bare hands, the chances of contamination of coated surface due to finger oil are very high. Therefore it is advised to use nylon or polyester gloves. Each sheet is well packed in moisture-free paper, so they should not rub each other.

If any researcher wants to check the resistivity, it is advisable to measure with the help of 4 probe methods to get an accurate result.



Feel Free to Reach Us

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