

Patterned and Printed ITO Coated PET Films

Description

Multek offers value-added processes to compliment its Sheldahl Brand Indium Tin Oxide (ITO) coated polyester film products. This includes the ability to pattern ITO and print ink circuitry which is done in a highly efficient, hands-off roll to roll format.

Features

- Fine ITO patterned features.
- ITO pattern hiding through index matching.
- Specialty protection films and optically clear adhesives available as custom options.

Base Film

- **Thickness:** 2, 5, 7, & 7.5mil (50, 125, 175, & 188µm) optically clear PET films.
- **ITO Resistance:** 60, 100, 200, 270*, & 300 Ω/□ standard. (* Index Matched.)
- **Patterned and Printed Width:** 13" or 17.125" (330mm or 435m).

ITO Patterning

- **Process:** Roll to Roll Photolithography
- **Minimum ITO feature size:** 50µm
- **Max pattern size:** 415mm x 600mm
- **Resistance uniformity:** <±10%

Printed Ink Circuitry

- **Process:** Roll to Roll Screen Printing
- **Inks:** Silver, Carbon, Dielectric, PEDOT.
- **Minimum silver trace pitch:** 100µm
- **Resistance Uniformity:** <±5%
- **Silver to ITO Print Registration:** ±150µm

Complimentary Processes

- PSA application.
- Lamination of multiple layers.
- Singulation of parts.

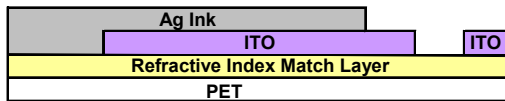
Quality

Sheldahl Brand materials are manufactured using quality systems that conform to ISO9001 and TS-16949 quality standards. Key product characteristic are tested and monitored in accordance to applicable industry and strict internal standards. Certifications are available with product shipments.

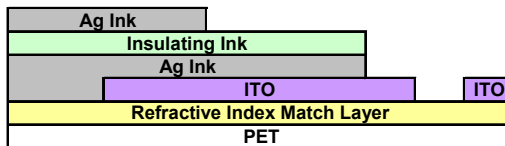
*The information contained herein is based upon typical data, Multek makes no warranties expressed or implied as to its accuracy and assumes no liability arising out of its use by others. The user should determine suitability of Multek materials for each individual application.

Examples

Patterned ITO with one silver ink printing pass



Patterned ITO with two silver ink printing passes separated by UV curable insulating ink (covercoat)



Patterned ITO with silver and carbon inks and a covercoat.

