

G430300 ITO Coated PET Films

Description

Sheldahl Brand G430300 products provide transparent electrically conductive Indium Tin Oxide (ITO) coatings on polyester films. This ITO coating is deposited by state-of-the-art sputtering technology. Typical applications for Multek's ITO coated PET are: Electroluminescent Lamps (EL), Flexible Displays, transparent flexible circuits, static dissipation, heaters, EMI shields, solar cells, and electronic signage.

Features

- High stability, optically clear PET films.
- Uniform ITO coating with superb light transmission and color properties.
- Product provided in wide roll widths.
- Specialty protection films, adhesive, and hard coats available as custom options.

Construction

| |
|-----|
| ITO |
| PET |

- **Film Thickness:** 2, 5, and 7 mil (50, 125, 175 μm) optically clear heat stabilized PET films.
- **ITO Resistance Offered:** 60, 100, 200, 300 Ω/\square standard. Other resistances offered as special order.
- **Product Format:** Available in rolls or sheets with protection film applied to one or both sides, with optically clear PSA, and with ITO patterning as product options.
- **Width:** Master rolls are 52" (1320mm) wide on 6" (152mm) ID plastic cores. We will custom slit the master roll or sheet to your specification.

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.

Ordering Information

When ordering please specify:

- ITO resistance
- Film thickness
- Product roll width
- Any applicable custom requirements

Shelf Life and Storage

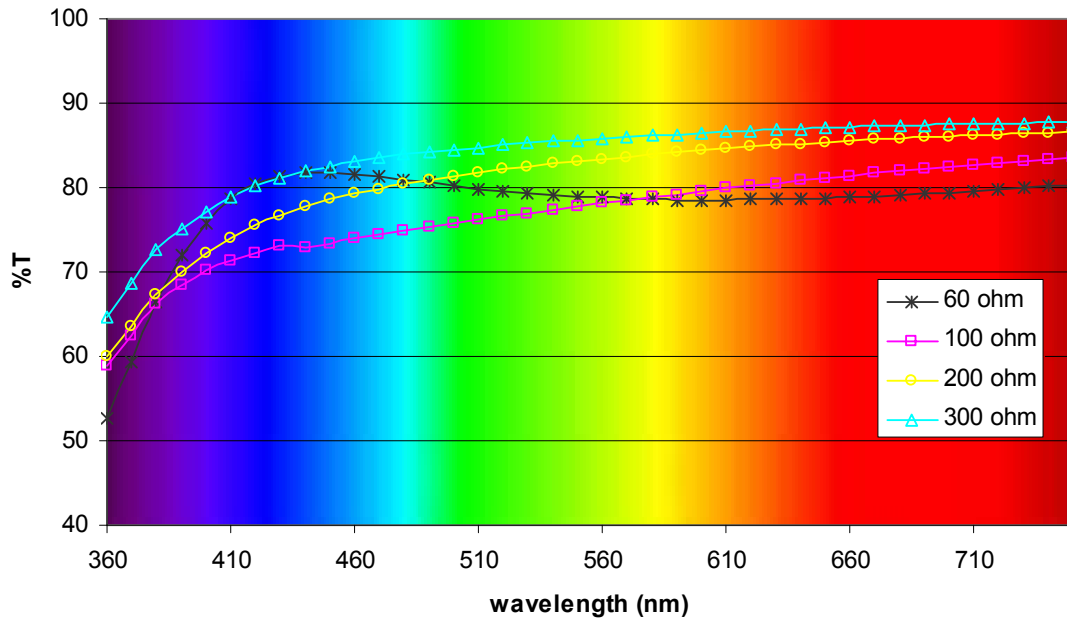
Shelf life is one year when kept at ambient conditions of 21°C and 50% RH in original unopened container.

G430300 ITO Coated PET Films

Typical Product Characteristics

| Properties | Units | 60 ohm | 100 ohm | 200 ohm | 300 ohm | Test Method |
|---------------------------------|------------------|-----------------|---------|---------|---------|---------------------|
| Resistance | Ω/\square | 55 | 95 | 200 | 300 | Four-Point Probe |
| %T @ 550nm | % | 78.5 | 78 | 83 | 85 | ASTM D1003 |
| L* | % | 91 | 91 | 93 | 94 | ASTM D1003 |
| Color b* | | -1.6 | 3.7 | 3.2 | 2.0 | Hunter Lab |
| Color a* | | 0 | 0.5 | 0 | 0 | Hunter Lab |
| Haze | % | 1.0 | | | | ASTM D1003 |
| ITO Adhesion | | No Removal (5B) | | | | ASTM D3359 Method B |
| Linearity MD | % | 1 | | | | |
| Dimensional Stability (MD / TD) | % | 0.15 / 0.01 | | | | 150°C for 30 min |

% Transmission per ITO Resistance (Visible Range)



*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.