

## G430300 ITO Coated PET Films

### Description

Multek's SHELDAHL brand G430300 products provide transparent electrically conductive thin Indium Tin Oxide (ITO) coatings on polyester films. This ITO coating is deposited by state-of-the-art sputter technology. Typical applications for Multek's ITO coated PET are: Electroluminescent Lamps (EL), Liquid Crystal Displays (LCDs), 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  $\mu$ m) optically clear heat stabilized PET films.
- **ITO Resistance Offered:** 60, 100, 200, 300  $\Omega$  /  $\square$  standard. Other resistances offered as special order.
- **Product Format:** Available as 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 1320mm (52") wide on 6" ID plastic cores. We will custom slit the master roll or sheet to your specification.

### Quality

Multek's SHELDAHL brand materials have been an industry leader in the coating of flexible films for over 50 years. Multek products 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 approximately one year when kept at ambient conditions of 21°C and 50% RH in original unopened container.

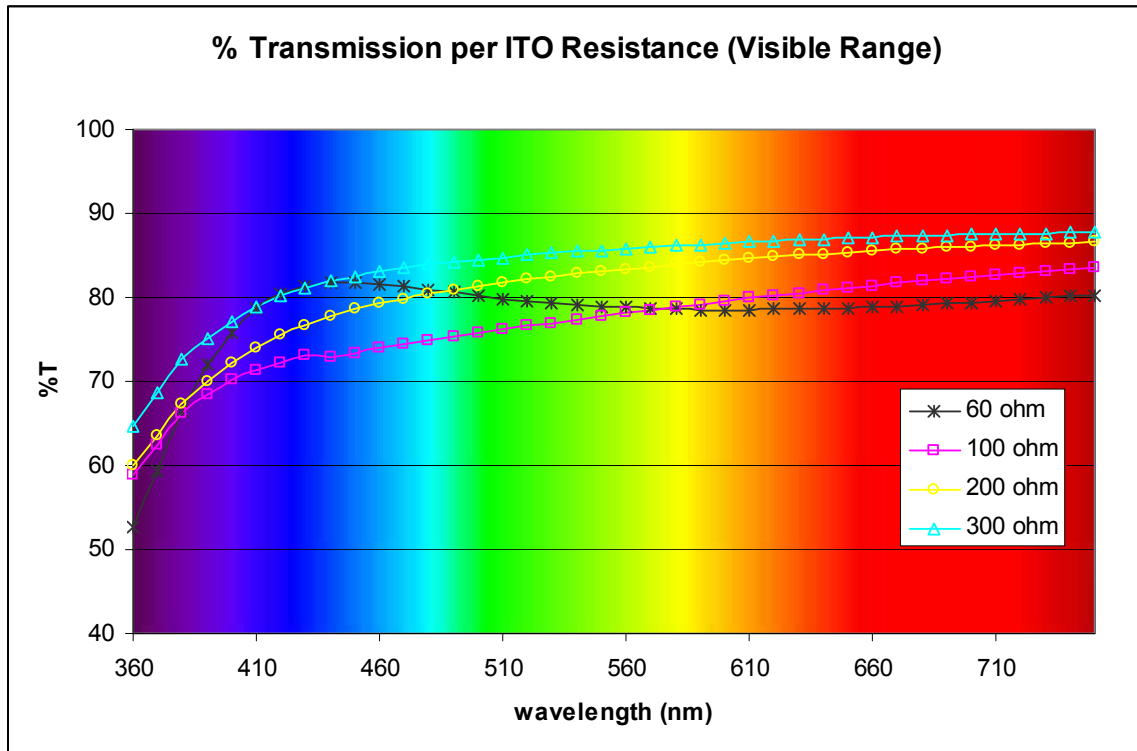
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## Typical Product Characteristics

Properties	Units	60 ohm	100 ohm	200 ohm	300 ohm	Test Method
Average Rs	$\Omega/\square$	55 $\pm$ 10	100 $\pm$ 10	200 $\pm$ 15	300 $\pm$ 30	Four-Point Probe
%T @ 550nm	%	> 78.0	> 77.0	> 82.5	> 84.0	ASTM D1003
L*	%	> 90	> 89.0	> 92.0	> 92.0	ASTM D1003
Color b*		$\leq$ 0.0 and $\geq$ -2.5	$\leq$ 4.7 and $\geq$ 0.0	$\leq$ 3.8 and $\geq$ 0.0	$\leq$ 3.3 and $\geq$ 0.0	Hunter Lab
Color a*		$\leq$ 1.0 and $\geq$ -1.0	$\leq$ 1.0 and $\geq$ -1.0	$\leq$ 0.0 and $\geq$ -1.0	$\leq$ 0.0 and $\geq$ -1.0	Hunter Lab
Haze	%	$\leq$ 2.0				ASTM D1003
ITO Adhesion		No Removal				ASTM D3359
Linearity MD	%	<1				
Etch	Seconds	$\leq$ 120	$\leq$ 120	$\leq$ 60	$\leq$ 35	
Dimensional Stability	MD & TD	$\pm$ 0.2%				150°C for 30 min



\*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.

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