



TECHNICAL DATA SHEET

Indium Tin Oxide (ITO) Coatings

Optical Filter Source - Optics solutions redefined

OVERVIEW

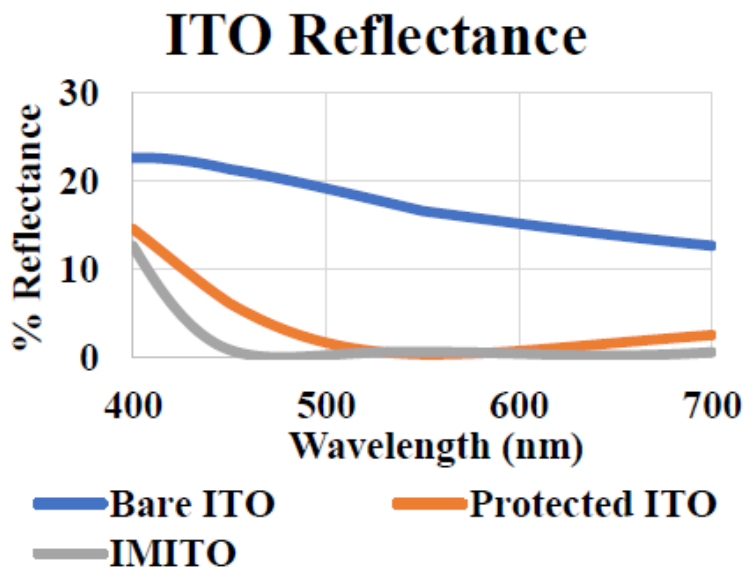
Indium Tin Oxide (ITO) is a compound containing indium(III) oxide and tin(IV) oxide. When deposited on a substrate, the compound creates a Transparent Conductive Oxide (TCO) with excellent electrical and refractory optical properties.

There are many commercial uses for ITO, including touch screen displays, electrochromic and electroluminescent displays, and heat rejection. In optics, ITO is primarily used in the following ways:

- EMI / RFI immunity
- Anti-fog / Anti-Ice
- Charge dissipation

ITO PERFORMANCE

ITO alone may not produce acceptable optical performance. The image to the right shows bare ITO with the blue line. As you can see, the reflectance is quite high in the VIS. We can deposit a protective layer over the top of the ITO which brings the reflectance down appreciably. We can also index match the ITO to a wave band, much like an AR coating over the ITO. The plots for protected and IMITO are also shown below.



Optical Filter Source

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