



INDIUM TIN OXIDE (ITO) EMI/RFI SHIELDS for PLASTIC DISPLAY FILTERS and WINDOWS

White Electronic Designs Indium Tin Oxide (ITO) transparent conductive coating is specifically designed for electronic displays requiring both EMI/RFI shielding and good optical performance. Developed for use with White's plastic display filter and window products (circular-polarized, acrylic and polycarbonate), our unique ITO coating allows system designers to meet their shielding requirements and still provide their customers with superior display quality and viewability.

SPECIFICATIONS

RESISTIVITY:

25 or 50 ohms/square

LIGHT TRANSMISSION (ITO only):

83% to 86%

ADHESION:

No part of coating removed by standard pull test (per Mil C-675A)

ABRASION TESTS:

Following humidity exposure, no visible degradation after 20 eraser rubs (meets Mil 8 10-C, and Mil M-13508B)

INDEX MATCHING

Index matching allows system designers to achieve a superior level of EMI/RFI shielding while optimizing total light transmission. For Display window applications that require maximum light transmission, such as LCDs, White can apply a secondary coating to the ITO surface which increases the overall light transmission of the display window. With index matching on a 0.094" polycarbonate window, a 50 ohms/square ITO will provide 90% overall light transmission through the window!

TERMINATION

White's ITO conductive coatings support a variety of system termination techniques, including bus bars, conductive adhesives, and conductive gaskets.

FULL-SERVICE APPLICATIONS SUPPORT

As with all White's EMI/RFI design solutions, we understand that the performance of an ITO shield depends on the design and the total system configuration in which it is used. Our Sales personnel are available to help you select the best possible display filter/window and ITO combination to meet your design goals.