



ELECTRA

TECHNICAL DATA SHEET

ELECTRALUX ELX-ITO-R

1-COMPONENT INDIUM TIN OXIDE (ITO)
REPLACEMENT PASTE
ELECTRO LUMINESCENT LAMP APPLICATIONS

PRODUCT DESCRIPTION

ELX-ITO-R is a partially transparent, conductive paste optimised for use as an alternative to ITO in the construction of **electro luminescent (EL) lamps**.

It is formulated to give excellent adhesion performance to both polycarbonate and polyester films.

Recommended lamp construction:

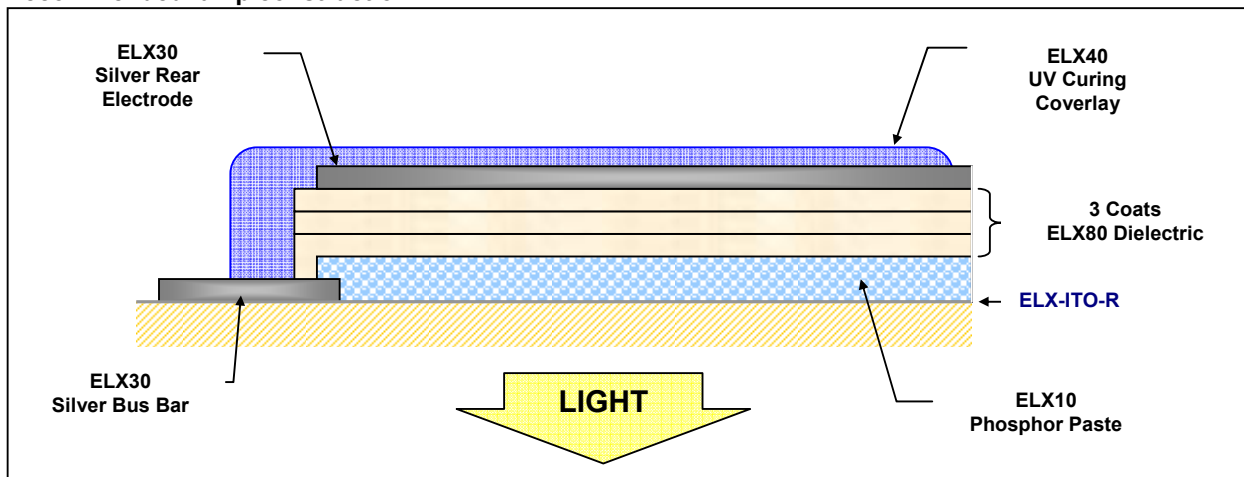


Figure 1 – Recommended EL lamp construction

PROCESSING

Mixing: It is important that materials are thoroughly mixed prior to use.

Printing: Mesh: 140T polyester
Squeegee: 80 Shore
Theoretical coverage: 12.5 cm³/m²

Important: The stencil photo-resist on the screens must be resistant to water and organic solvents. Good results were obtained with Dirasol 915 from Sericol or Kiwocol Polyplus HWR from Kiwo.

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ELX-ITO-R Rev1



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Viscosity adjustment: Not recommended

Drying:

Drying conditions in a box oven:

1. 30 min at 80°C for polycarbonate films < 100 µm and amorphous polyester
2. 15 min at 130°C for polycarbonate films > 100 µm or polyester films

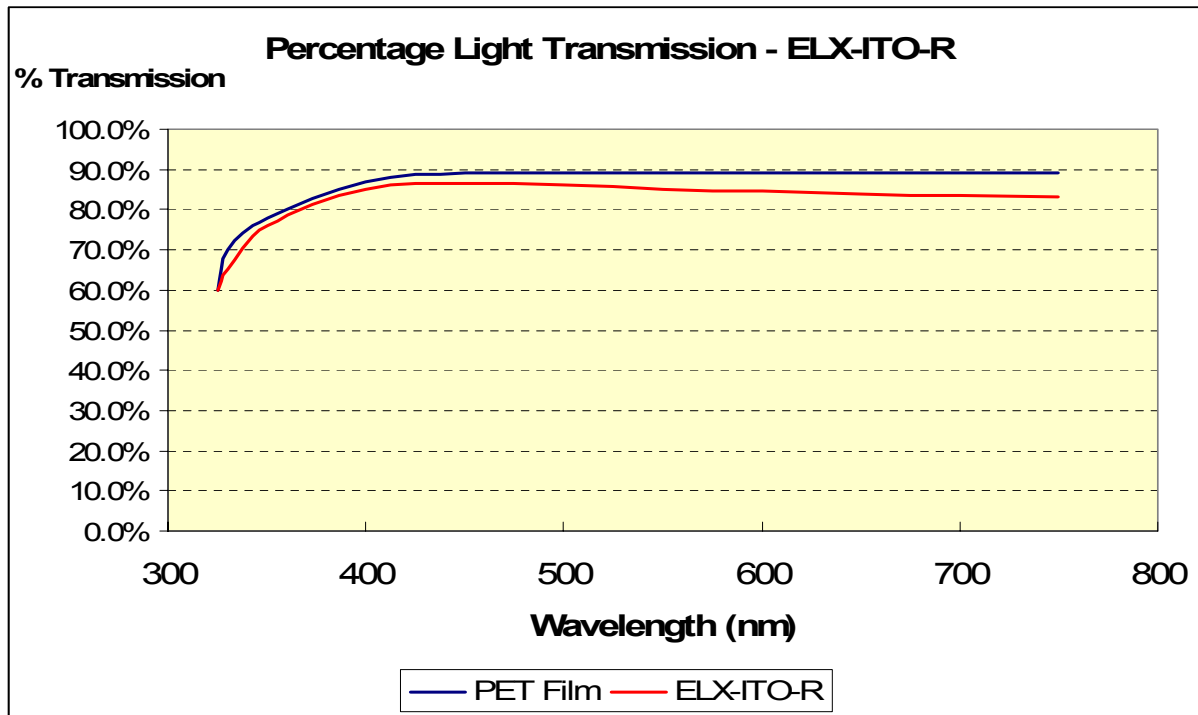
Clean-up: Screens and utensils used for the printing of ELX-ITO-R must be cleaned with water directly after printing.

Important: Dried ELX-ITO-R is insoluble and difficult to remove.

FINAL PROPERTIES

Resistivity: 700 Ohms per square (under above conditions)

Transparency:





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SHELF LIFE: 6 months from date of manufacture, when stored in cool dry conditions.

STORAGE: Store between 10°C to 25°C in a dry store.
Avoid subjecting containers to temperatures below 5°C because of risk of splitting.

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Page 3 of 3

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