

# DuPont™ LuxPrint® 7162

ELECTROLUMINESCENT MATERIALS

## Technical Data Sheet

### Product Description

DuPont™ LuxPrint® 7162 electroluminescent material is a translucent conductor designed for use as the front electrode for manufacturing LuxPrint® Electroluminescent (EL) lamps. It is designed to be used as the first printed layer for lamps fabricated on PET or alternative (non-transparent) substrates which are compatible with LuxPrint® compositions.

### Product Benefits

- Screen printable front electrode
- Low cost translucent conductor
- High coverage
- Neutral body color

### Processing

- **Screen Printing Equipment**  
Semi-automatic or manual
- **Substrates**  
Print Treated Polyester film, Printed Circuit Boards
- **Ink Residence Time On Screen**  
>1 hours
- **Screen Types**  
Polyester: 77T-62T;  
20-25µm emulsion
- **Typical Cure Conditions**  
Box oven: 130°C/5 min.
- **Layer Thickness**  
25 - 40 µm (dry)
- **Clean-up Solvents**  
Ethylene Diacetate, Acetone

**Table 1**  
**Composition Properties**

Test	Properties
Viscosity (Pa.s) [Brookfield RVT UC&SP @ 10rpm, 25°C]	3.5 - 10
Solids (130°C/2hrs)(%)	41.5 - 44.0
Thinner	DuPont 8260
<b>Table 2</b> <b>Printed Properties on 125 µm Polyester Film</b>	
Coverage (cm <sup>2</sup> /g)	110 - 130
Resistivity (kΩ/sq/25µm)	≤ 15.0

Table 1 shows anticipated typical physical properties for LuxPrint® 7162 based on specific controlled experiments in our labs and are not intended to represent the product specifications, details of which are available upon request.

### Printing

The composition must be thoroughly mixed before use. This best achieved by slow, gentle, hand stirring with a clean, preferably plastic spatula for several minutes. Care must be taken to avoid air entrapment. Printing should be performed in a clean and well ventilated area. Note: optimum printing characteristics are generally achieved in the room temperature range of 20°C - 23°C. It is therefore important that the material, in its container, is at this temperature prior to commencement of printing.

## Storage and Shelf Life

Containers should be stored, tightly sealed, in a clean, stable environment at room temperature (<25°C). Shelf life of material in unopened containers is six months from date of shipment. Some settling of solids may occur and compositions should be thoroughly mixed prior to use.

## Safety and Handling

For Safety and Handling information pertaining to this product, read the Material Safety Data Sheet (MSDS).

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