

TECHNICAL DATA SHEET

ELECTRALUX ELX₁₀

1-COMPONENT PHOSPHOR PASTE **ELECTRO LUMINESCENT LAMP APPLICATIONS**

PRODUCT DESCRIPTION

ELX10 is a range of phosphorescent pastes designed to be used with ELX80 Dielectric and ELX30 Silver Conductor over indium tin oxide (ITO) coated polyester substrates in the construction of electro luminescent (EL) lamps.

Recommended lamp construction:

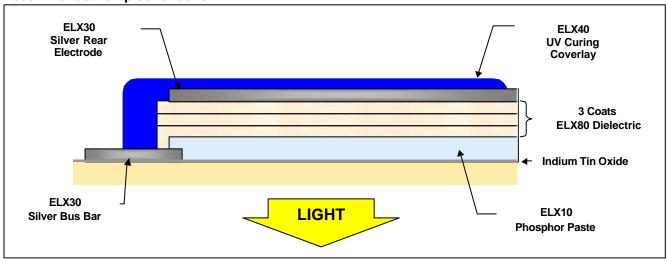


Figure 1 - Recommended EL lamp construction

Brightness:

A power supply of 100V/400Hz will give a brightness of up to 400 Lux¹ depending on material type:

0	ELX10-Or	Orange	70 Lux
0	ELX10-W	White	95 Lux
0	ELX10-G	Green	400 Lux
0	ELX10-B	Blue	300 Lux

¹ (All measurements using ISO-TECH ILM350 meter)

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ELX10rev5

VIPRA



PROCESSING

Mixing: ELX10 may settle on storage. It is important that materials are thoroughly mixed prior to use.

Printing: Mesh: 55 - 77T polyester

Drying: 2 to 10 minutes at 110-130°C

Required time will depend on drying system (e.g. circulation and exhaust)

Note:

It may be necessary to allow a short time for de-bubbling and levelling prior to the drying stage to ensure a smooth coating.

VISCOSITY ADJUSTMENT

All ELX10 pastes are supplied ready to print however if lower viscosities are required, ELX10 should be reduced using **ER17** Reducer. Care should be taken not to add too much reducer since this may adversely affect print properties.

SHELF LIFE:

Minimum 12 months from date of manufacture, when stored in cool dry conditions.

CLEAN-UP:

After printing, the screen and utensils should be cleaned of residual material using Universal Screenwash SW200.

STORAGE:

Store between $10^{\circ}\text{C} - 25^{\circ}\text{C}$ in a dry store. Avoid subjecting containers to temperatures below 5°C because of risk of splitting.

Dense components may settle during storage. It is recommended that materials are kept on roller or similar device when not in use.

FINAL PROPERTIES

Flexibility: 3mm mandrel PASS

Adhesion: Tape-test PASS

Hardness: <HB

After the EL lamp has been printed and tested it can be encapsulated with **ELX40 Coverlay**, or heat-sealed in protective polyester or another suitable polymer and adhesive combination.

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