



ELECTRA

TECHNICAL DATA SHEET

ELECTRALUX ELX50

1-COMPONENT CARBON PASTE
ELECTRO LUMINESCENT LAMP APPLICATIONS

PRODUCT DESCRIPTION

ELX50 is a conductive carbon based paste optimised for use as a rear electrode in the construction of **electro luminescent (EL) lamps**.

It is formulated to give a crack free layer with excellent adhesion performance with **ELX80 Dielectric Paste** and **ELX40 UV Curable Coverlay**.

Recommended lamp construction:

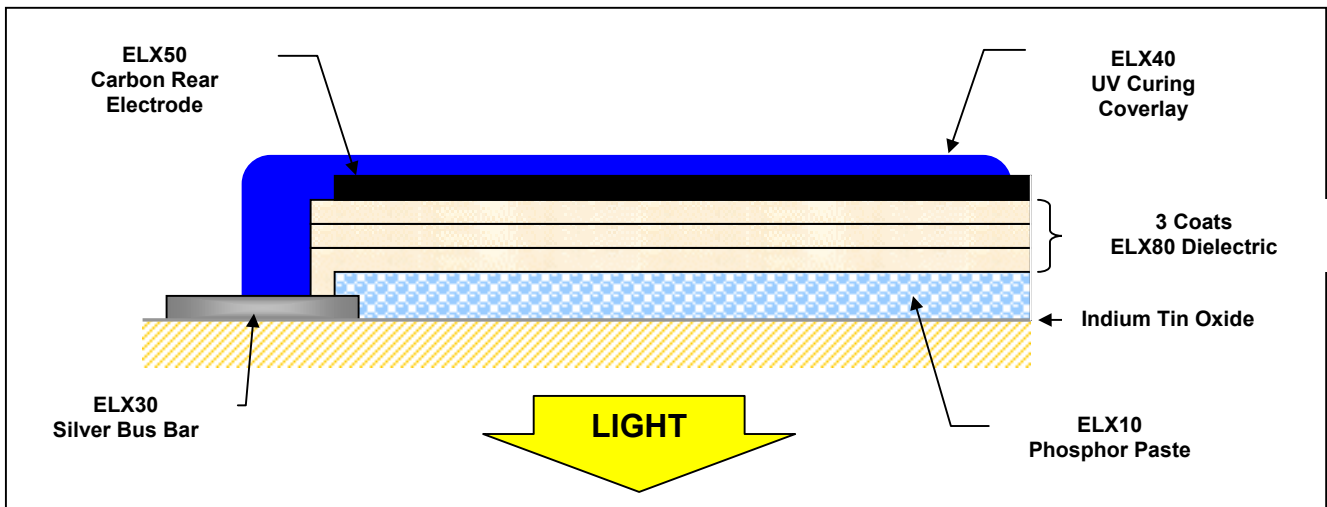


Figure 1 – Recommended EL lamp construction



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PROCESSING

Printing: Mesh: 55 - 77T polyester

Finer mesh counts can be used but pinholes or voids will cause dull points on the finished lamp.

Drying: 2 to 10 minutes at 110-130°C for each layer
Required time will depend on drying system (e.g. circulation and exhaust)

VISCOSITY ADJUSTMENT

All ELX50 pastes are supplied ready to print however if lower viscosities are required ELX50 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°C – 25°C in a dry store. Avoid subjecting containers to temperatures below 5°C because of risk of splitting.

FINAL PROPERTIES

Flexibility:	3mm mandrel	PASS
Adhesion:	Tape-test	PASS (dielectric)
Hardness:	1H	

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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For further information, contact:

Electra
Roughway Mill
Dunk's Green
Tonbridge
Kent TN11 9SG
ENGLAND

Tel: +44 (0)1732 811 118
info@electrapolymers.com

Or visit our website for details of local offices and distributors:

www.electrapolymers.com

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