TECHNICAL DATA SHEET
SCRIBE
EL16

2-COMPONENT LEGEND RANGE

PRODUCT DESCRIPTION

EL16 is a 2-component legend ink system for marking printed circuit boards. It is extremely fast curing and offers strong contrast, high definition and good chemical resistance.

FEATURES & ADVANTAGES

- **Longer pot life.** 2 component mixture remains usable for 48 hours.
- **Increased screen stability.** Less drying-up and, no staining of mesh.
- **No colour change on soldering.** White and yellow legends do not assume an off-colour tinge after soldering.

EL16 PRODUCT RANGE

EL16/1453W	White
EL16/1774Y	Yellow
EL16N	Black
H-1413	Hardener

PROCESSING

Mixing: EL16 is supplied pre-weighed for safe and easy mixing.
If smaller quantities are required; EL16 should be mixed in the ratio 9:1, paste:hardener, by weight.

Important: Mix paste and hardener until homogenous. Incomplete mixing will lead to problems.

E.g. Poor adhesion to substrate
Poor chemical resistance
Patchy colour/finish.

Viscosity adjustment:
Viscosity may be adjusted using **Electrareducer ER1.** No more than 5% reducer should be added or deterioration of printing or curing properties may occur.

Printing: Mesh: 77 - 100T polyester Squeegee: 70 - 80 shore

Curing:

CONVECTION OVEN	**IR CURING**
10 to 20 min at 140 to 150°C	2 min at 160-180°C

Important: All times are time **at board temperature**
Users should make their own tests when using IR curing owing to the variation between different machines, e.g. IR wavelength and IR intensity.
Please contact Electra Technical service department for recommendations

SHELF LIFE:

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

CLEANING:

Screens and equipment should be cleaned using Universal Screenwash **SW100.**

FINAL PROPERTIES

Physical properties

Pencil Hardness:	5-6H
Solder resistance: (SM840A III)	>20s @ 260°C >30s @ 274°C
Solvent resistance: against CFCs & alcohols. (SM840A III)	No degradation
Flux resistance: (SM840A III)	No degradation

Electrical properties

Dielectric strength:	45kVmm^{-1}
Dielectric loss factor:	0.02 @ 1MHz
Surface resistivity:	10^{14} Ω
Volume resistivity:	10^{16} Ω cm^{-1}
Moisture & insulation resistance (IPC SM840A):	>10^{10} Ω
Dielectric constant:	3.4 @ 1MHz

Flammability: E95722 UL 94 V0

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