



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: >20s @ 260°C
(SM840A III) >30s @ 274°C
Solvent resistance: No degradation
against CFCs & alcohols.
(SM840A III)
Flux resistance: No degradation
(SM840A III)

Electrical properties

Dielectric strength: 45kVmm⁻¹
Dielectric loss factor: 0.02 @ 1MHz
Surface resistivity: 10¹⁴ Ω
Volume resistivity: 10¹⁶ Ω cm⁻¹
Moisture & insulation
resistance (IPC SM840A): >10¹⁰ 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

The Laboratories at Electra Polymers & Chemicals Ltd. have taken all reasonable steps to ensure that the information set out above is accurate within the scope and limitations of our existing knowledge and experience. Since, however, we cannot anticipate or control the many interrelated conditions under which our products are used, all our products are offered for sale and trial on the basis that clients will satisfy themselves by tests or otherwise on these products, that they are fit, suitable and safe for the purpose for which they are required, within the parameters and conditions in which they will be used. In cases where our products are found to be defective in material and workmanship, our liability is limited to the purchase price of the products found to be defective. THIS WARRANTY IS TO THE EXCLUSION OF ALL OTHER WARRANTIES OR GUARANTEES, EXPRESS OR IMPLIED, AS TO MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, DESCRIPTION PRODUCTIVENESS OR ANY OTHER MATTER. None of the above information may be construed as a recommendation that our products be used in violation of any patent rights. We accept your orders at our shipping points only on the basis of the above understanding, set out in our detailed "Standard Terms + Conditions of sale". E & OE.