

Graphic Screen

ink

**Outdoor Signage,
Decals (Long Term)**

POLYPLAST IN EL

**Extra Light Resistant Outdoor Screen Inks for
Wide Range of Plastics**

FEATURES

- Solvent Based
- Extended Outdoor Durability
- High Gloss
- Excellent Screen Stability & Self Solvency
- Suitable for Machine & Manual Printing
- Good Flexibility
- Suitable for Vacuum Forming
- Good Resistance to a Wide Range of Solvents
- Unlimited Colour Matching Capability
- Capability of Matching Metallics

Substrate :

Wide range of plastics such as:
PVC, CAB, ABS, PC, Acrylics & Coated Polyester

**TEST INKS ON SUBSTRATES
BEFORE PRODUCTION RUN.**

SERICOL
More than ink...Solutions.
FUJIFILM

Applications:

The Polyplast IN EL inks are widely used for outdoor signage, POP display, decal & vacuum forming.

Product resistance:

Polyplast inks have good resistance to a wide variety of solvents including petrol and alcohol. Where exceptionally high resistance to petrol is required, overprinting with VA401 APR Varnish is recommended. APR varnish should not be used for prolonged outdoor exposure in excess of two years in temperate climate. The Polyplast IN EL Ink System is battery acid resistant.

Colour Range:

The Polyplast IN EL Ink System consists of five special EL Seritone base colours that are designed for use in colour matching in conjunction with four standard IN Seritone base colours and IN-010 Tinting Black and IN-030 Tinting White. Where Black or White printing colour is required, the standard IN-001 and IN-021 should be used as these have higher opacity and colour strength than the tinting shades. Also available are IN-383 Extender Base, which is recommended for mixing into colour matches, and four metallics.

Special Recommendations:

To obtain the best results from the IN EL System, the following recommendations must be followed during colour matching and print production.

1) The 13 colours which comprise the EL System and IN-383 Extender may be:

- a) Printed over and under each other .
- b) Intermixed for matching purposes provided that:
 - i) the combined proportion by weight of IN-021 White, IN-030 Tinting White and IN-383 Extender Base does not exceed 80% of the total colour match mix.
 - ii) the individual proportion of any one colour, except Black, is not below 5% of the total mix.

2) Universal Tinters must not be added to EL System colours or to IN-383.

3) No colour, other than the EL System, must be added.

4) The EL System must be printed on to suitably durable and compatible substrates.

5) Because of different pigmentation, the five EL Seritone colours may vary in shade from the same named colours in the standard Polyplast IN range.

Colour Matches

Colour matches can be supplied against prints and / or wet ink.

A) Standard Colours:

IN 001	Black
IN 010	Tinting Black
IN 021	White
IN 030	Tinting White
IN 841	EL Light Yellow (GS)
IN 843	EL Mid Chrome (RS)
IN 802	EL Deep Orange
IN 127	Deep Violet
IN 864	EL Red (BS)
IN 165	Magenta
IN 821	EL Vermilion / Red (YS)
IN 230	Blue
IN 325	Green
IN 383	Extender Base

B) Metallic Colours:

IN 461	Rich Pale Gold
IN 462	Silver
IN 463	Bright Silver
IN 464	Sparkle Silver

C) Polyplast INEL Reducers:

SS-557	Reducer
SS-558	Slow Reducer (Retarder)
SS-639	Universal Screen Wash

The slow reducer will increase the drying time of print, whilst the reducer will not change the normal drying time of print.

Outdoor Use:

Polyplast IN EL inks have been successfully tested for weathering in a QUV Weatherometer, as per ASTM G53 test specification, using UVB-313 lamps. All inks withstood 3000 hours and more without appreciable colour change. Metallics withstood 2000 hours. Accelerated weathering tests cannot be precisely related to outdoor performance. However, the Polyplast IN EL Inks overprinted with PY 433 expected to have an outdoor exposure durability of five years. Metallics and Colour matches containing any proportion of metallics would have lower outdoor durability. For optimum weatherability, it is necessary to overprint all IN EL prints with PY 433.

Thinning :

Maximum of 20 % by weight of ink used. For the recommended thinners Please refer to the section on Polyplast IN EL Reducers.

Mesh :

Print the Polyplast IN EL inks & metallics through 90/cm, or coarser, monofilament polyester fabric, depending on the application. For fine details, use amber or yellow coloured fabric.

Stencils :

Stencils can best prepared with Sericol's stencil making products :

Xtend Prep 101 for abrasion of screen mesh

Xtend Prep 102 for degreasing of screen mesh

Emulsions: Dirasol 132(one pack) or Dirasol 915(two pack)

Wash Up:

Wash up screens with SS 639 universal screen wash. This will ensure long life of stencils made with Dirasol emulsions.

Coverage:

Polyplast IN EL inks should give coverage of 45 sq.m./kg, when printed through a 90/cm mesh.

Drying:

Air dry: up to 15 minutes. Do not stack prints immediately. Allow sufficient time for through cure.

Jet dry: 55 to 65 degree centigrade, for up to 20 seconds. Prints must be cooled to ambient temperature before stacking.

Pre-production Test:

Always test for adhesion and other properties before each production run because there can often be significant differences between substrates from different manufacturers and even between different batches.

Important: End user must determine suitability of this product for the intended use prior to production.

Storage :

- Keep inks in cool place, away from direct sunlight.
- Keep lids tightly closed when not in use.
- Any unused ink should not be returned to can, must be stored separately.
- Shelf life is two years from the date of manufacturing.
- Stir well before every use.

Safety and Handling:

Polyplast IN EL Ink System is formulated to be free from any (toxic) carcinogenic, mutagenic or reprotoxic chemicals. Polyplast IN EL Ink System is formulated free from lead and other heavy metals and are tested as per EN71-3:1988 Toy Safety Standard. Comprehensive information on the safety and handling of Polyplast IN EL screen inks and solvents is given in the Material Safety Data Sheet, which is available on request.

Environmental Information:

Polyplast IN Ink System does not contain ozone-depleting chemicals as described in the Montreal Convention.

Fujifilm Sericol India Pvt Ltd

- Has certification to the international Environmental Standard, ISO 14001.
- Is committed to minimizing the risk to users of our products, and also to minimizing the impact of our activities on the environment, from formulation through to production and supply.
- Regularly review and monitor our impacts and activities, setting objectives and targets as part of a continual improvement process.
- Is committed to reduce waste through better use of raw materials, energy, water, re-use and recycling.

Important Note:

The information and recommendations contained in this product information sheet as well as technical advice otherwise given by representative of our company, whether verbally or in writing, are based on our present knowledge and experience. Such information/ technical advice is given in good faith, but without warranty, in view of the many factors that may affect processes or applications as we cannot cover or anticipate every possible application of our products and because manufacturing methods, printing stocks and other materials vary.

For the same reason our products are sold without warranty and on condition that users shall make their own tests to satisfy themselves that the products will meet fully the particular requirements of the labels/ brands/ agencies of their clients and also that no proprietary rights and existing laws and legislation are violated.

Our advice does not relieve processors from the responsibility of carrying out their own tests and experiments, nor does it imply any legally binding assurance in respect of properties or suitability for a specific purpose or of the legal status of the listed products.

Our policy of continuous product improvement might make some of the information contained in this product information sheet out of date and users are requested to ensure that they follow current recommendations.

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