

Series

LH

Type: solvent

Printing process: screen printing

Ink type: one-component

Finish: glossy

Materials: ABS, Cellulose acetate, Cellulose acetate butyrate, Coated paper, Lacquered surfaces, Mylar, Polycarbonate, Polymethacrylate (PMMA), Polystyrene, rigid PVC, SAN, Self-adhesive PVC, Synthetic leather, treated Polyester

Main features:

Thermoplastic ink.

- . Glossy appearance
- . Moderate coverage
- . Fast in drying
- . Excellent solidity for outdoor applications
- . Low odor
- . Good flexibility
- . Good thermoformability with the vacuum system
- . Soluble during the print
- . Possibility of use with the spray system using the relative OLVSP thinner.
- . Excellent barrier to the migration of plasticizers contained on the supports to be printed.

Thermoplastic substances are sensitive to tension cracks, especially PS and PC, due to the solvents present inside the ink. Pre-tests are absolutely essential for such printing applications.

Certifications: CLP/GHS (EC 1272/2008), Conflict minerals free, EN 71-3, Reach (EC 1907/2006), RoHS

The EN 71:3 Directive is valid for standard shades of one component inks, two component inks, Ink system and Process colors, HD shades and for all not standard shades which do not contain metallic shades, metallic pastes or fluorescent pigments or inks.

In order to clarify any doubt on not standard shades, it is always recommended to provide us a specific request.

Eco-sustainability (free of): Animal origin ingredients, Azo dyes, Bisphenol A (BPA), Formaldehyde, G-B Ester, Latex, Melamine, Persistent organic pollutants, Phthalates (listed in RoHS directive)

Note: shades in the fluorescent color chart contain formaldehyde.

Note: all our inks are formulated with non carcinogenic aromatic naphthas as the benzene content is below than 0.1% by weight.

IPA contamination are also possibile but always below the limit of 1000 ppm.

Outdoor resistance (years): 4

Suitable for outdoor application.

The pigments used have a solidity from 7 to 8 DIN.

In case of mixing with the transparent bases 70 TR or TP, or with the white 160 or 60 BN, the light fastness and atmospheric agents decrease.

If you want to increase the outdoor solidity, it's recommended to add the 5-7% of UV adsorber to the ink.

Drying process: 10 minutes at room temperature

LH series dries physically by evaporation of solvents.

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Drying times depend on various factors:

- . thickness of printed ink layer (single print, multi-layer print).
- . type and amount of thinners/retarders used
- . type of oven
- . drying temperature
- . type of substrate on which the ink is deposited.

Ink dries physically by evaporation of solvents:

- . 10-15 minutes at room temperature (depending on local conditions)
- . 20-60 sec at 50°C in an air circulation oven.

(The test performed in our laboratory was carried out under the following conditions: 8 mt/min, 120.34 screen printing mesh, medium thinner LH-DM at 15%, air circulation oven).

Mechanical and chemical solidity:

Alcohol	
Gasoline	(60-70 wipes with 1 Kg of weight)
Mechanical stress (Impacts)	
Surface hardness (Abrasion)	(hardness 3H)

Laboratory tests were performed after the complete drying of the printed film (48 hours in a muffle at 60°C)

Colours range: EXTRA - M, FLUORESCENTI, HD, INK SYSTEM, METALLIZZATI, QUADRICROMIA, TRASPARENTI

110	111	112	114	115	117	120	121	122	124
130	131	132	133	134	135	136	140	141	142
143	144	150	151	160	165	104	104 BIS	105	106
107	108	160 HD	165 HD	10 GL	11 GS	12 AR	21 RS	22 RC	25 MG
27 VT	32 BL	40 VR	60 BN	65 NR	70 TR	75 RE	75 RE GLITTER	75 ME	76 RE
76 RE GLITTER	76 ME	77 RE	77 RE GLITTER	77 ME	78 RE	78 RE GLITTER	78 ME	79-050	79-02 ME
79-NC	1080	1081	1082	1083	TP	80	81	81-00	82
82-00	83	84	85						

Please refer to the Glossy ink LH series, Metallic, Fluorescent and Ink System ink color charts.

The Ink System are 12 colour shades for mixing of RAL, PMS and HKS colours

The metallic shades are available only by mixing the relative pastes with the Transparent Base LH 70 TR.

Gold paste 75 10-20%

Gold paste 76 10-20%

Gold paste 77 10-20%

Bronze paste 78 10-20%

Silver paste 79-050 10-15%

The metallic pastes composed with the relative transparent base LH 70 TR, due to their particular composition, can oxidize.

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The pot-life of the compounded METALLIC PASTES is about 8 working hours.

The other metallic shades are ready for use.

The Display color chart contains extremely clear and transparent shades:

- 80 yellow
- 81 red
- 81-00 carmine red
- 82 blue
- 82-00 dark blue
- 83 purple
- 84 green
- 85 orange

In the Ink System color chart are present the shades.

1080 yellow, 1081 magenta, 1082 blue, 1083 black, TP paste (CMYK), necessary for making four-color prints.

In the range are also included the following shades :

160 HD Opaque white

165 HD Opaque black

170 AB Anti-gasoline transparent base

Auxiliaries and additives:

LH-DM medium thinner	15%	
LH-DL slow thinner	15%	
XF-DR fast thinner	15%	
OLVSP thinner	50%	for spray applications
Retarder paste	10%	max
M 2000/S levelling agent	1,5%	
Antisilicone/s	1,5%	
Universal antifoam agent	1%	
UV Adsorber	8%	
Antistatic/s	1,5%	
NPT matting powder	2%	6% max

Ink removal:

DACS solvent

Lavaggio telai solvent

Aprimaglia Spray

STORAGE:

Please keep the cans in a dark place, at temperature of 15-25°C.

If the recommended temperature is higher than the suggested one or the cans are not completely closed, the shelf life and the qualities are drastically reduced.

CLASSIFICATION:

Before using this ink, consult the relevant safety data sheets available.

The safety data sheets provided comply with the REACH regulation (EC 1907/2006).

The hazard classification and related labelling are compliant with the CLP / GHS regulation (EC 1272/2008).

OTHER INFORMATION:

For more information on SERICOM ITALIA srl products, refer to the website www.sericom.it

NOTE:

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Our technical consultancy activity, carried out orally, in writing or through tests or experiments, takes place on the basis of our best knowledge.

However, the same must be considered as information without any binding value, also as regards any third party industrial property rights.

This does not exempt the customer from performing his own checks on the products supplied by us in order to estimate the suitability or otherwise of the procedures and for the purposes intended.

The application, use and transformation of the products take place outside our control possibilities and therefore fall under the exclusive responsibility of the customer.