

DIGITAL FLEXOGRAPHY PRINTING PLATES

NCL has more than 10 years of experience in the implementation and use of photopolymer materials at the largest print houses of the flexographic market.

Huaguang Photopolymer Flexo Printing Plates are the latest-generation high-tech products with a wide range of applications and prices in line with the demanding market requirements.

Lucky Huaguang Graphics Co., LTD. founded in 1972. It is a state-owned enterprise of the China Aerospace Science and Technology Corporation.

With high quality, productivity, and a variety of sizes and thicknesses, Huaguang's range of inkjet plates covers virtually all segments of the flexo printing market.

Huaguang analog and digital photopolymer plates have proven themselves excellently and are used for the production of:

- Labels
- Flexible packaging
- Corrugated packaging, cardboard, and paper products;

TECHNOLOGICAL BENEFITS

- printing with smooth transitions in halftones;
- fast washing out and drying;
- excellent reproduction of raster dots;
- a wide range of applications in printing;
- optimized for printing highly linear, high-quality work;
- good ink transfer;
- compatible with the latest prepress technologies as well as all existing flat top dot shaping technologies
- provide flat-topped raster dots while removing oxygen during exposure;

Suitable for recording the image on the mask layer of flexoplates using laser recording devices of all manufacturers;

There are no restrictions on equipment for exposure, processing, and drying of flexo plates;

Suitable for printing with water-based inks, alcohol, and UV inks;

Incompatible with paints based on oils, hydrocarbon solvents, or with inks containing more than 25% ethyl acetate;

Suitable for most developers on the market. Exposure to carbon dioxide must be avoided;

ECONOMICAL BENEFITS

- Fast and easy to use;
- Long run printing and reuse;
- Printing at high speeds;
- No specially prepared premises required;
- No special conditions are required for disposal;

BASIC DIMENSIONS

- 2032 x 1270 mm;
- 2032 x 1067 mm;
- 1524 x 1067 mm;
- 1200 x 900 mm;
- 1016 x 762 mm

It is possible to produce plates according to the dimensions required by the customer

DIGITAL FLEXOGRAPHY PRINTING PLATES

TYPE	DR284LD	DR284-II	DR284M-II	DR254-II	DR228LS	DR170LS	DR170M	DR170H	DR114H
Thickness / mm	2,84	2,84	2,84	2,54	2,28	1,70	1,70	1,70	1,14
Hardness / Shore A	40 – 42	46 – 48	52 – 54	54 – 56	56 – 58	62 – 64	66 – 68	70 – 72	74 – 76
Relief depth / mm	1,0 – 1,4	1,0 – 1,4	1,0 – 1,4	1,0 – 1,2	1,0 – 1,2	0,7 – 0,9	0,7 – 0,9	0,7 – 0,9	0,6 – 0,7
Dot reproduction / %	2 – 98	2 – 98	2 – 98	2 – 98	2 – 98	1 – 98	1 – 98	1 – 98	1 – 98
Line / lpi	120	120	120	133	133	150	150	150	150
Isolated line / mm	0,175	0,175	0,175	0,15	0,15	0,10	0,10	0,10	0,10
Isolated dot / mm	0,25	0,25	0,25	0,20	0,20	0,20	0,20	0,20	0,20
Back exposure / s	25 – 50	25 – 40	25 – 40	25 – 40	35 – 55	25 – 40	25 – 40	25 – 40	20 – 40
Main exposure / min	10 – 15	8 – 20	8 – 20	8 – 15	8 – 20	10 – 18	10 – 18	10 – 18	10 – 18
Rising / min	4 – 5	5 – 7	5 – 7	5 – 7	5 – 7	5 – 7	5 – 7	5 – 7	5 – 7
Drying / h	1,5 – 2	1,5 – 2	1,5 – 2	1,5 – 2	1,5 – 2	1,5 – 2	1,5 – 2	1,5 – 2	1,5 – 2
Detackifying / min	5	5 – 8	5 – 7	5 – 8	5 – 7	5 – 8	5 – 8	5 – 8	5 – 7
Post exposure / min	5	5 – 8	5	5	5	5	5	5	5

DIGITAL FLEXOGRAPHY PRINTING PLATES

TYPE	DR635LD	DR550LD	DR470LD	DR394LD	DR394II	DR318LD
Thickness / mm	6,35	5,50	4,70	3,94	3,94	3,18
Hardness / Shore A	36 – 38	36 – 38	36 – 38	38 – 40	43 – 45	40 – 42
Relief depth / mm	2,2 – 3,0	2,2 – 3,0	1,8 – 2,4	1,8 – 2,0	1,8 – 2,0	0,9 – 1,5
Dot reproduction / %	3 – 98	3 – 98	3 – 98	2 – 98	2 – 98	2 – 98
Line / lpi	85	85	85	100	100	100
Isolated line / mm	0,30	0,30	0,30	0,20	0,20	0,175
Isolated dot / mm	0,50	0,50	0,50	0,40	0,40	0,25
Back exposure / s	160 – 320	120 – 240	80 – 220	40 – 80	35 – 60	35 – 60
Main exposure / min	12 – 24	12 – 20	10 – 20	12 – 20	12 – 20	10 – 15
Rising / min	10 – 12	8 – 12	9 – 12	5 – 7	5 – 8	4 – 5
Drying / h	3 – 4	3	2 – 3	1,5 – 2	1,5 – 2	1,5 – 2
Detackifying / min	5 – 8	5	5 – 8	5	5 – 8	5
Post exposure / min	5 – 8	5 – 8	5 – 8	5	5 – 8	5

HARDNESS ANALOGS

TYPE	DR394-III	DR394-II	DR318LC	DR384-II	DR254-II	DR170LS	DR170M	DR170H	DR114LS	DR114H
Hardness / Shore A	36 – 38	43 – 45	39 – 41	46 – 48	54 – 56	62 – 64	66 – 68	69 – 72	69 – 72	74 – 76
DuPont Cyrel	—	—	—	—	—	DS2 67	DPU 67	DPR 67 NOWS 67	DS2 45	DPR45 NOWS 45
Flint Nyloflex	—	—	FAC – DII 125	—	—	ACT – DII 06	—	ACE – DII 067 FAH – DII 067	ACT – DII 045	ACE – DII 045 FAH – DII 045
Asahi AFP	—	—	—	—	DSF 2,54	DSF 1,7	—	DSH 1,7	DSF 1,14	DSH 1,14
MacDermid	—	—	—	—	—	Digital MVP 67	—	Digital MAX 67	Digital MVP 45	Digital MAX 45