

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

- good paint transfer;
- stability of printing;
- excellent printing results and stability of parameters in the manufacture of forms;

Compatible with the latest prepress technologies as well as all existing flat top dot shaping technologies:

- Esko Crystal
- Esko PixelPlus
- Esko MikroCell
- Esko FullHD

Supports major multichannel separation systems (Kodak Spotless, OpalTone, etc.)

- there are no restrictions on equipment for exposure, processing and drying of flexo plates;
- suitable for printing using water-based inks, alcohol and UV inks;
- incompatible with paints based on oils, hydrocarbon solvents, or with paints containing more than 25% ethyl acetate;
- fast and easy to use;
- printing of long runs and reuse;

- printing at high speeds;
- specially prepared premises and special conditions for disposal are not required;

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

HUAGUANG FLEXO PLATES FOR PRINTING ON CORRUGATED BOARD, CARDBOARD AND PAPER

TYPE	R700-II	R635L	R550L	R470L	R394	R394-III	R394-II	R394Q-II	R318L	R284-II	R284-L	R284
Thickness / mm	7	6,35	5,55	4,7	3,94	3,94	3,94	3,94	3,18	2,84	2,84	2,84
Hardness / Shore A	38 – 40	36 – 438	36 – 38	36 – 38	43 – 45	36 – 38	43 – 45	40 – 42	39 – 41	46 – 48	40 – 42	44 – 46
Relief depth / mm	3,2 – 3,8	2,2 – 3,0	2,2 – 3,0	1,2 – 2,2	1,8 – 2,0	1,8 – 2,0	1,8 – 2,0	1,8 – 2,0	0,9 – 1,5	1,0 – 1,4	1,0 – 1,4	1,0 – 1,4
Dot reproduction / %	3 – 95	3 – 95	3 – 95	3 – 95	3 – 95	3 – 95	3 – 95	3 – 95	2 – 95	2 – 95	2 – 95	2 – 95
Line / lpi	85	85	85	85	100	100	100	100	120	120	120	120
Isolated line / mm	0,30	0,30	0,30	0,30	0,30	0,30	0,30	0,30	0,175	0,175	0,175	0,175
Isolated dot / mm	0,50	0,50	0,50	0,50	0,50	0,50	0,50	0,50	0,25	0,25	0,25	0,25
Back exposure / s	180 – 280	160 – 280	80 – 220	80 – 220	35 – 70	35 – 70	50 – 70	25 – 40	25 – 75	25 – 40	25 – 50	10 – 30
Main exposure / min	16 – 24	16 – 24	10 – 20	10 – 20	8 – 20	8 – 20	8 – 20	8 – 20	8 – 20	8 – 20	8 – 15	8 – 15
Rising / min	10 – 12	10 – 12	9 – 12	9 – 12	5 – 7	5 – 7	5 – 7	5 – 7	5 – 7	5 – 7	5 – 7	5 – 7
Drying / h	3 – 4	3 – 4	3 – 3,5	3	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 – 8	5 – 8	5 – 8	5 – 8	8 – 10	5 – 8	5 – 8	5 – 8	5 – 8	5 – 8	5 – 8	8 – 10
Post exposure / min	5 – 8	5 – 8	5 – 8	5 – 8	5 – 8	5 – 8	5 – 8	5 – 8	5 – 8	5 – 8	5 – 8	5 – 8

FLEXOGRAPHY PRINTING PLATES HUAGUANG

TYPE	R284M-II	R284H	R254-II	R228LS	R170LS	R170M	R170H	R114LS	R114H
Thickness / mm	2,84	2,84	2,54	2,28	1,7	1,7	1,7	1,14	1,14
Hardness / Shore A	52 – 54	58 – 60	54 – 56	56 – 58	62 – 64	66 – 68	69 – 72	69 – 72	74 – 76
Relief depth / mm	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	0,6 – 0,7
Dot reproduction / %	2 – 95	2 – 95	2 – 95	2 – 95	2 – 95	2 – 95	2 – 95	2 – 95	2 – 95
Line / lpi	120	120	133	133	150	150	150	150	150
Isolated line / mm	0,175	0,175	0,15	0,15	0,10	0,10	0,10	0,10	0,10
Isolated dot / mm	0,25	0,25	0,20	0,20	0,20	0,20	0,20	0,20	0,20
Back exposure / s	25 – 40	25 – 40	25 – 40	35 – 55	25 – 40	15 – 21	15 – 21	35 – 60	35 – 70
Main exposure / min	8 – 20	8 – 20	8 – 15	8 – 20	10 – 18	10 – 18	10 – 18	10 – 18	10 – 18
Rising / min	5 – 7	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 – 7	5 – 7	5 – 7	5 – 7	5 – 7	5 – 8	5 – 8	5 – 7	5 – 8
Post exposure / min	5	5	5	5	5	5	5	5	5

HARDNESS ANALOGS

TYPE	R700-II	R635L	R550L	R470L	R394	R394-II	R394-III	R394Q-II	R318L	R284-II	R284H
Hardness / Shore A	38 – 40	36 – 38	36 – 38	36 – 38	43 – 45	43 – 45	36 – 38	40 – 42	39 – 41	46 – 48	58 – 60
DuPont Cyrel	–	HDC250	–	–	HDC155	HDC155	HDC155	HDC155	–	NEOS112	–
Flint Nyloflex	–	–	–	–	–	ART155	FAC155	ART155	FAC-X125	ART122	ACE112 FAH112
Asahi AFP	–	–	–	–	–	–	SE3.94	–	–	–	SH2.84
MacDermid	–	–	–	–	–	–	–	–	MGC125	–	MAX112

TYPE	R284M-II	R284L	R254-II	R228LS	R170LS	R170M	R170H	R114LS	R114H
Hardness / Shore A	52 – 54	40 – 42	54 – 56	56 – 58	62 – 64	66 – 68	69 – 72	69 – 72	74 – 76
DuPont Cyrel	–	–	–	–	NEOS 67	DPU67	HIQS 67 NOWS67	NEOS 45	HIQS 45 NOWS45
Flint Nyloflex	FAR112 ACT112	FAC-X112	FAR100 ACT100	FAR091	FAR067 ACT067	–	FAH067 ACE067	FAR045 ACT045	FAH045 ACE045
Asahi AFP	SF 2.84	SE 2.84	SF 2.54	–	SF 1.7	–	SH 1.7	SF 1.14	SH 1.14
MacDermid	MVP112	MGC112	MVP110	–	MVP067	–	MAX067	MVP045	MAX045