



Huaguang Flexographic Printing Plates

HUAGUANG FLEXOGRAPHIC PRINTING PLATE USED FOR CORRUGATED BOARD

Huaguang flexographic printing plate used for corrugated board is available in thickness from 2.84mm to 7.00mm.

High quality

- The era technology of Conventional Flexographic Printing applied to the corrugated board, board and paper;
- Excellent ink transfer;
- Printing stability;
- Excellent printing results and operable quality;

Economic applicability

- Fast and convenient operation;
- Long run/reusable;
- High printing speeds;
- Environmental process, No residual recovery;

Product features

Tonal range:

4.70mm-7.00mm: 3-95% at 85lpi

3.94mm: 3-95% at 100lpi

2.84mm-3.18mm: 2-95% at 100lpi;

Plate-making equipments and other requirements

○ Suitable equipments:

Huaguang flexographic printing plates used for corrugated board can be processed with all commonly used exposure machine.

○ Suitable ink:

suitable for water and alcohol-based ink, incompatible with oil-based ink, hydrocarbon solvent or the ink containing more than 25% of ethyl acetate

○ Suitable developer:

Suitable flexographic printing plate 's carbon dichloride/n-butyl alcohol

Sizes/Specifications

Common specifications:

2032mm*1270mm, 2032mm*1067mm,

1524mm*1067mm, 1016mm*762mm.

You are welcome to contact our marketing department for special specifications.

The technical specification of huaguang flexographic printing plates

Type	R700-II	R635L	R550L	R470	R394	R394-II	R394-III	R394Q- II	R318L	R284- II	R284L	R284
	Technical parameters											
Thickness/ /mm	7.00	6.35	5.50	4.70	3.94	3.94	3.94	3.94	3.18	2.84	2.84	2.84
Hardness/ Shore A	38-40	36-38	36-38	36-38	43	43	36-38	42-39	37	46	38	45-42
Relief depth /mm	3.2-3.8	2.2-3.0	2.0-3.0	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/ down to 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/ down to 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
	Plate parameters											
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
Rinsing /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	5-7	5-7	5-7	5-7	5-7	5-7	5-7	8	8-15
Post exposure /min	5-8	5-8	5-8	3-5	3-5	3-5	3-5	5	5	3-5	5	5

THE REFINING HUAGUANG FLEXOGRAPHIC PRINTING PLATE

The refining huaguang flexographic printing plate is one of the Sheet series, the range of the thickness from 1.14 to 2.84mm.

High quality

- ⊙ The high-end flexo-printing technology suitable for food, pharmaceutical and flexible package printing and varnish;
- ⊙ Using the environmentally friendly water-based ink, Conducive to the healthy development of the environment;
- ⊙ Effect of fine printing, operable Quality

Economic applicability

- ⊙ Fast and convenient operation;
- ⊙ Long run/reusable;
- ⊙ High printing speeds;
- ⊙ Environmental process, No residual recovery;

Plate-making equipments and other requirements

⊙ Suitable equipments:

The Exposure equipment of Huaguang flexible resin plate can be used all laser systems suitable for imaging flexo printing plates;

⊙ Suitable ink:

suitable for water and alcohol-based ink, incompatible with oil-based ink, hydrocarbon solvent or the ink containing more than 25% of ethyl acetate;

⊙ Suitable developer:

Environmental protection developer for flexographic printing plate and carbon dichloride.

Sizes/Specifications

Common specifications:

2032mm*1270mm, 2032mm*1067mm,
1524mm*1067mm, 1016mm*762mm;

You are welcome to contact our marketing department for special specifications.

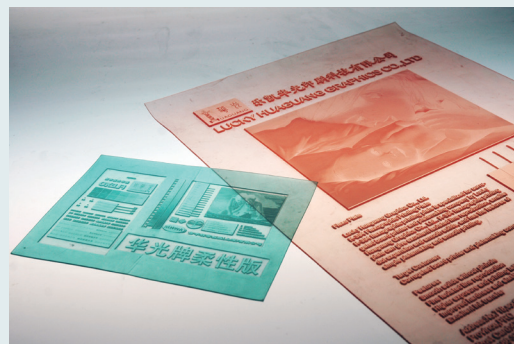
The technical specification of refining huaguang flexographic printing plate

Type	R284M- II	R284H	R254- II	R228LS	R170LS	R170H	R114LS	R114H
	technical feature							
Thickness/mm	2.84	2.84	2.54	2.28	1.70	1.70	1.14	1.14
Hardness/Shore A	53	58-60	56	56	62-64	70-72	69-71	75-76
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	0.6-0.7	0.6-0.7
Dot reduction/%	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
Isolated line/mm	0.175	0.175	0.15	0.15	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
	Plate parameters							
Back Exposure/s	25-40	25-40	25-40	35-55	25-40	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
Rinsing/min	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
Detackifying/min	5-7	5-7	5-7	5-7	5-7	5-8	5-7	5-8
Post exposure/min	5	5	5	5	5	5	5	5

HUAGUANG DIGITAL FLEXOGRAPHIC PRINTING PLATE

High quality

- ◉ The high-end flexo-printing technology suitable for food, pharmaceutical and flexible package printing and varnish;
- ◉ Using the environmentally friendly water-based ink, Conducive to the healthy development of the environment;
- ◉ Effect of fine printing, operable Quality



Economic applicability

- ◉ Fast and convenient operation;
- ◉ Long run/reusable;
- ◉ High printing speeds;
- ◉ Environmental process, No residual recovery;



Plate-making equipments and other requirements

◉ Suitable equipments:

The Exposure equipment of Huaguang flexible resin plate can be used all laser systems suitable for imaging flexo printing plates;

◉ Suitable ink:

suitable for water and alcohol-based ink, incompatible with oil-based ink, hydrocarbon solvent or the ink containing more than 25% of ethyl acetate;

◉ Suitable developer:

Environmental protection developer for flexographic printing plate and carbon dichloride.

Sizes/Specifications

Common specifications:

2032mm*1270mm, 2032mm*1067mm,

1524mm*1067mm, 1016mm*762mm;

You are welcome to contact our marketing department for special specifications.

The technical specification of huaguang refining digital flexographic printing plate

Type	DR284M- II	DR284H	DR254- II	DR228LS	DR170LS	DR170H	DR114LS	DR114H
	technical feature							
Thickness/mm	2.84	2.84	2.54	2.28	1.70	1.70	1.14	1.14
Hardness/Shore A	53	58-60	56	56	62-64	70-72	69-71	75-76
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	0.6-0.7	0.6-0.7
Dot reduction/%	2-98%	2-98%	2-98%	2-98%	1-98%	1-98%	1-98%	1-98%
Line/lpi	120	120	133	133	150	150	150	150
Isolated line/down to mm	0.175	0.175	0.15	0.15	0.10	0.10	0.10	0.10
Isolated dot/down to mm	0.25	0.25	0.20	0.20	0.20	0.20	0.20	0.20
	Plate parameter							
Back Exposure/s	25-40	25-40	25-40	35-55	25-40	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
Rinsing/min	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
Detackfying/min	5-7	5-7	5-8	5-7	5-8	5-8	5-7	5-8
Post exposure/min	5	5	5	5	5	5	5	5

The Technical specification of huaguang digital flexographic printing plate used for corrugated board

Type	DR635L	DR550L	DR470	DR394-III	DR394- II	DR318L	DR284- II	DR284L
	technical feature							
Thickness/mm	6.35	5.50	4.70	3.94	3.94	3.18	2.84	2.84
Hardness/Shore A	36-38	36-38	36-38	38-41	43-45	37-39	46	38
Relief depth /mm	2.2-3.0	2.0-3.0	1.2-2.2	1.8-2.0	1.8-2.0	0.9-1.5	1.0-1.4	1.0-1.4
Dot reduction/%	3-98%	3-98%	3-98%	2-98%	2-98%	2-98%	2-98%	2-98%
Line/lpi	85	85	85	100	100	100	120	120
Isolated line/down to mm	0.30	0.30	0.30	0.20	0.20	0.175	0.175	0.175
Isolated dot/down to mm	0.50	0.50	0.50	0.40	0.40	0.25	0.25	0.25
	Plate parameters							
Back Exposure/s	160-280	80-220	80-220	35-70	35-60	25-75	25-40	25-50
Main Exposure/min	16-24	10-20	10-20	12-20	12-20	8-20	8-20	8-15
Rinsing/min	10-12	9-12	9-12	5-8	5-8	5-7	5-7	5-7
Dryin/h	3-4	3-3.5	3	1.5-2	1.5-2	1.5-2	1.5-2	1.5-2
Detackfying/min	5-8	5-8	5-7	5-8	5-8	5-7	5-7	8-15
Post exposure/min	5-8	5-8	5	5	5	5	5	5

HUAGUANG DIGITAL FLAT-TOP DOT FLEXOGRAPHIC PRINTING PLATE

Technical Advantages

No additional processing steps, equipment are required to develop Flat-top Dot plates;

Excellent photosensitive properties ensure reproduction of both finest elements and negative lines.

Less impression-sensitive of flat-top dots ensures more consistent printing quality;

Sharp dot reproduction, wide exposure latitude

Wider exposure latitude and better dot consistency ensure quality control in plate-making process.

Reproduction of high-resolution gradation meets the requirement of exquisite printing jobs.

Economic Applicability

Quick and easy operation, applicable for existing standard equipment with no need for additional investment

Highly durable with repeated application;

High printing speed;

Green process with no residues to be recovered.



Size and Specification

Standard sizes include:

2032mm * 1270mm, 2032mm * 1067mm, 1524mm * 1067mm, 1016mm * 762mm;

for special sizes please contact the sales.

Equipment/Ink/Solvent Compatibility

Compatible equipment:

suitable for all processing equipment for digital flexo plates with laser systems.

Compatible ink:

water-based and alcohol-based printing inks; not recommended for oil-based inks, hydrocarbon solvents based inks, or inks with acetate content higher than 25%.

Compatible developer:

environmental developers or tetrachloroethylene developers for flexo plates.

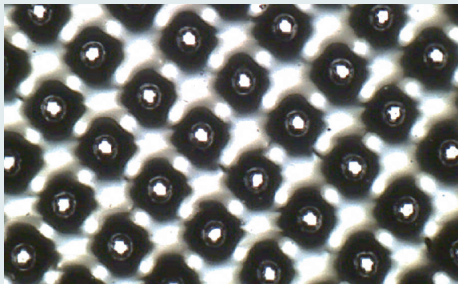
Technical Characteristics of Huaguang Digital Flat-top Dot Flexographic Printing Plate

Type	DTF170LS	DTF284L
Plate thickness/mm	1.70	2.84
Durometer/Shore A	63	39
Relief Depth/mm	0.7-0.9	1.0-1.4
Tonal Range	1-98	2-98
Resolution/lpi	150	120
Isolated line/down to mm	0.08	0.1
Isolated dot/down to mm	0.15	0.2
Back exposure/s	30-50	50-80
Main Exposure/min	10-18	12-20
Wash out speed/mm/min	130-160	150-180
Drying time/h	1.5-2	1.5-2
Detack time/min	5	5
Post exposure/min	5	5

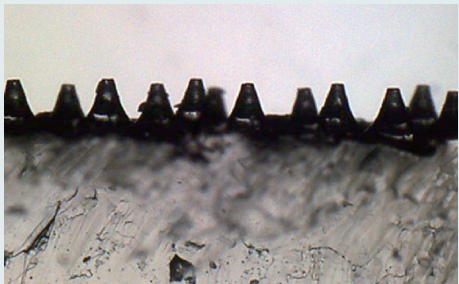
The hardness contrast table of conventional flexo products

Huaguang	R700-II	R635	R550	R470	R394	R394-II	R394-III	R394Q-II	R318L	R284-II	R284H
hardness (Shore A)	36	36	36	36	43	43	38-36	42	37	46	58-60
DuPont Cyrel	-	HDC250	-	-	HDC155	HDC155	DRC155	HDC155	-	NEOS112	-
Flint Nyloflex	-	-	-	-	-	ART155	FAC155	ART155	FAC- X125	ART112	ACE112 FAH112
Asahi AFP	-	-	-	-	-	-	SE3.94	-	-	-	SH2.84
MacDermid	-	-	-	-	-	-	-	-	MGC125	-	MAX112

Huaguang	R284M-II	R284L	R254-II	R228LS	R170LS	R170H	R114LS	R114H
hardness (Shore A)	53	38	56	56	60-62	72	69-70	76
DuPont Cyrel	-	-	-	-	NEOS 67	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



2% dot map of DTF284L



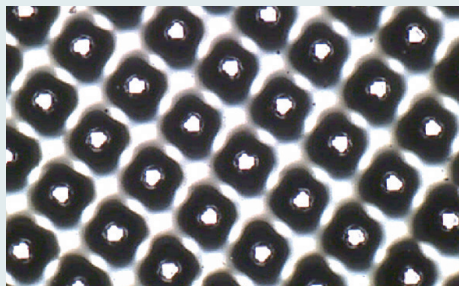
2% dot side view of DTF284L

The hardness contrast table of digital flexo products

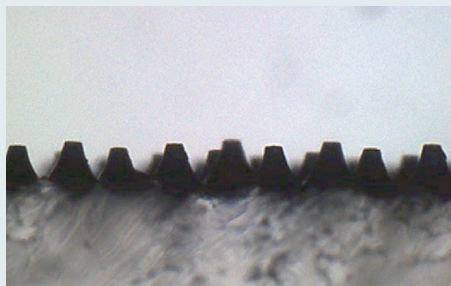
Huaguang	DR394- III	DR394-II	DR318L	DR284-II	DR254-II	DR170LS	DR170H	DR114LS	DR114H
hardness (Shore A)	38-36	43-45	37-39	45-48	56	60-62	70-72	69-72	75-76
DuPont Cyrel	-	-	-	-	-	DS2 67 DPU67	DPR67 NOWS67	DS2 45	DPR45 NOWS45
Flint Nyloflex	-	-	FAC- DII125	-	-	ACT-DII 067	ACE-DII067 FAH-DII067	ACT-DII045	ACE-DII045 FAH-DII045
Asahi AFP	-	-	-	-	DSF2.54	DSF1.7	DSH1.7	DSF1.14	DSH1.14
MacDermid	-	-	-	-	-	Digital MVP 67	Digital MAX 67	Digital MVP 45	Digital MAX 45

Notes:

- 1) Plate-making conditions: Lights of 80 watts (10.4mW/cm² at 365nm); Plate-setter temperature : 24-30°C.
- 2) All the above data are depended on the plate-making device made by Lucky Huaguang Graphics Co., Ltd. Due to the different requirements of plate-making devices, UV lamp power, relief depth and print image, the above recommended time can be changed suitably. Customers should test on their own device for getting optimum plate quality.



5% dot map of DTF284L



5% dot side view of DTF284L

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