

Print Sample Folder

High print quality due to the use of the DuploFLEX® 5 range

AGENDA

- 1) Goals
- 2) Test details
- 3) Test form pictures
- 4) Evaluation scheme
- 5) Results





1) Goals

1) Goals

- Help to choose the correct tape
- Real print samples
- Direct comparison
- Relaunch of an older version



2) Test details

Tapes

Which tapes were used:

Lohmann DuploFLEX® 5 range

- DuploFLEX 5.1
- DuploFLEX 5.2
- DuploFLEX HP 5.2
- DuploFLEX 5.3
- DuploFLEX HP 5.3
- DuploLFEX 5.4



Technical Data

Machine:	Bobst 20 seven
Mounting machine:	Bobst GPS
Anilox:	Zecher 460 / 3,5 gr
Solvent ink:	Flint Flexi Star MV Extender
Sleeve:	Rossini 420 mm
Substrate:	LDPE 40 µm white
Screen:	60 lpc / 152 lpi
Plates:	- Asahi DEF 1.14 mm - Kodak NX 1.14 mm

Plate: Asahi

Tape	Machine speed			
	m / min		ft / min	
DuploFLEX® 5.1	300	500	985	1640
DuploFLEX® 5.2	300	500	985	1640
DuploFLEX® HP 5.2		500		1640
DuploFLEX® 5.3	300	500	985	1640
DuploFLEX® HP 5.3		500		1640
DuploFLEX® 5.4	300	500	985	1640

Plate: Kodak

Tape	Machine speed	
	m / min	ft / min
DuploFLEX® 5.2	500	1640
DuploFLEX® HP 5.2	500	1640
DuploFLEX® 5.3	500	1640
DuploFLEX® HP 5.3	500	1640

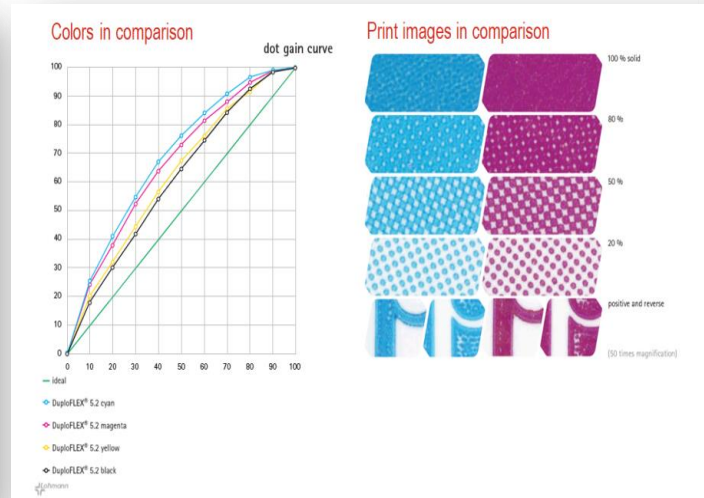
Print sample folder:

Lohmann is thinking wider than tapes

Lohmann set up a print sample folder printed at Bobst in Germany

Target of this tool:

- To test and analyse the impact of different hardness levels on print results through a direct comparison while all other parameters remain unchanged.

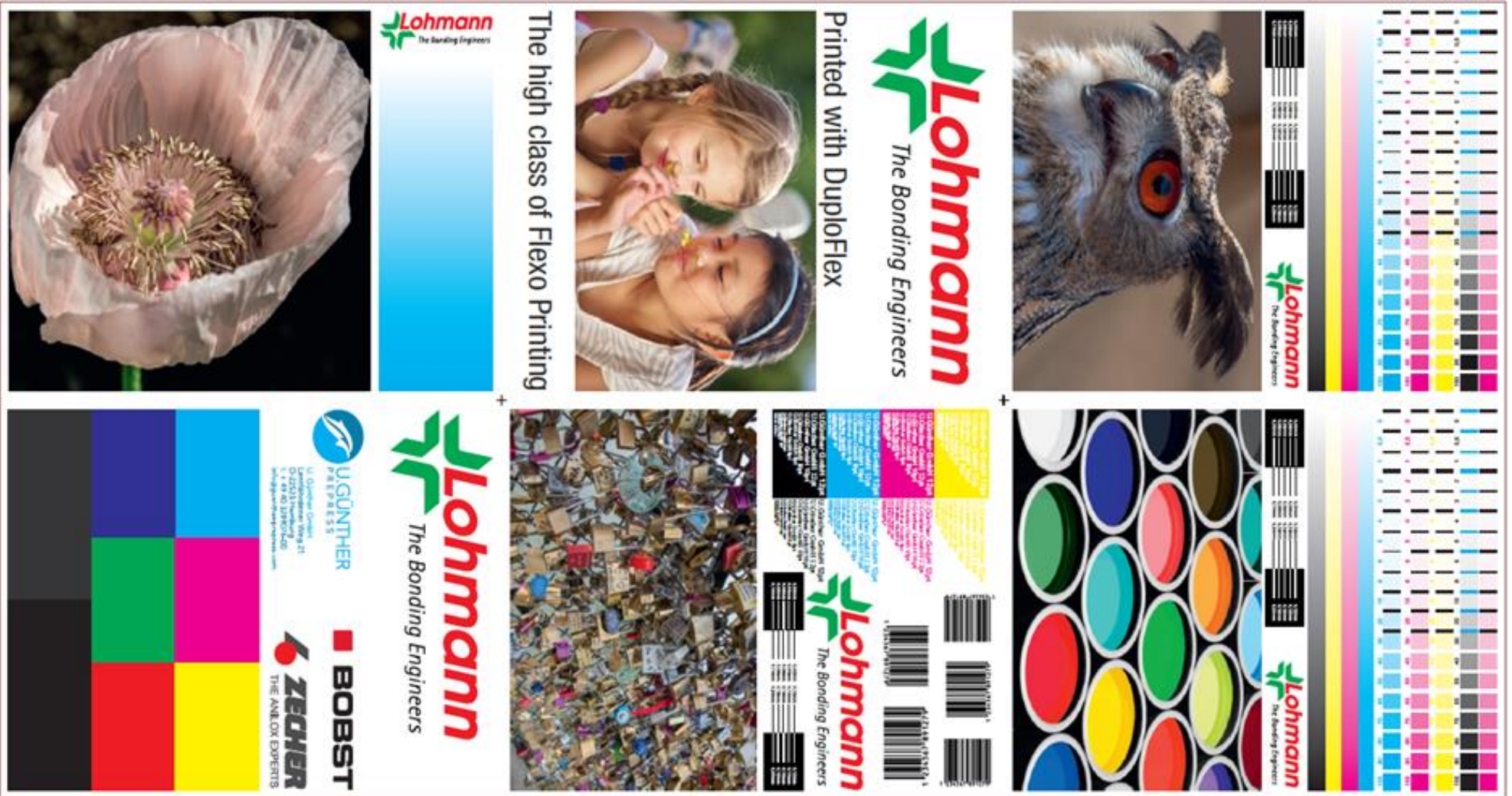




3) Test form pictures

Print test form

Complete view:



Print test form – content / tested features

Highlights in the picture; vignetted halftone screen



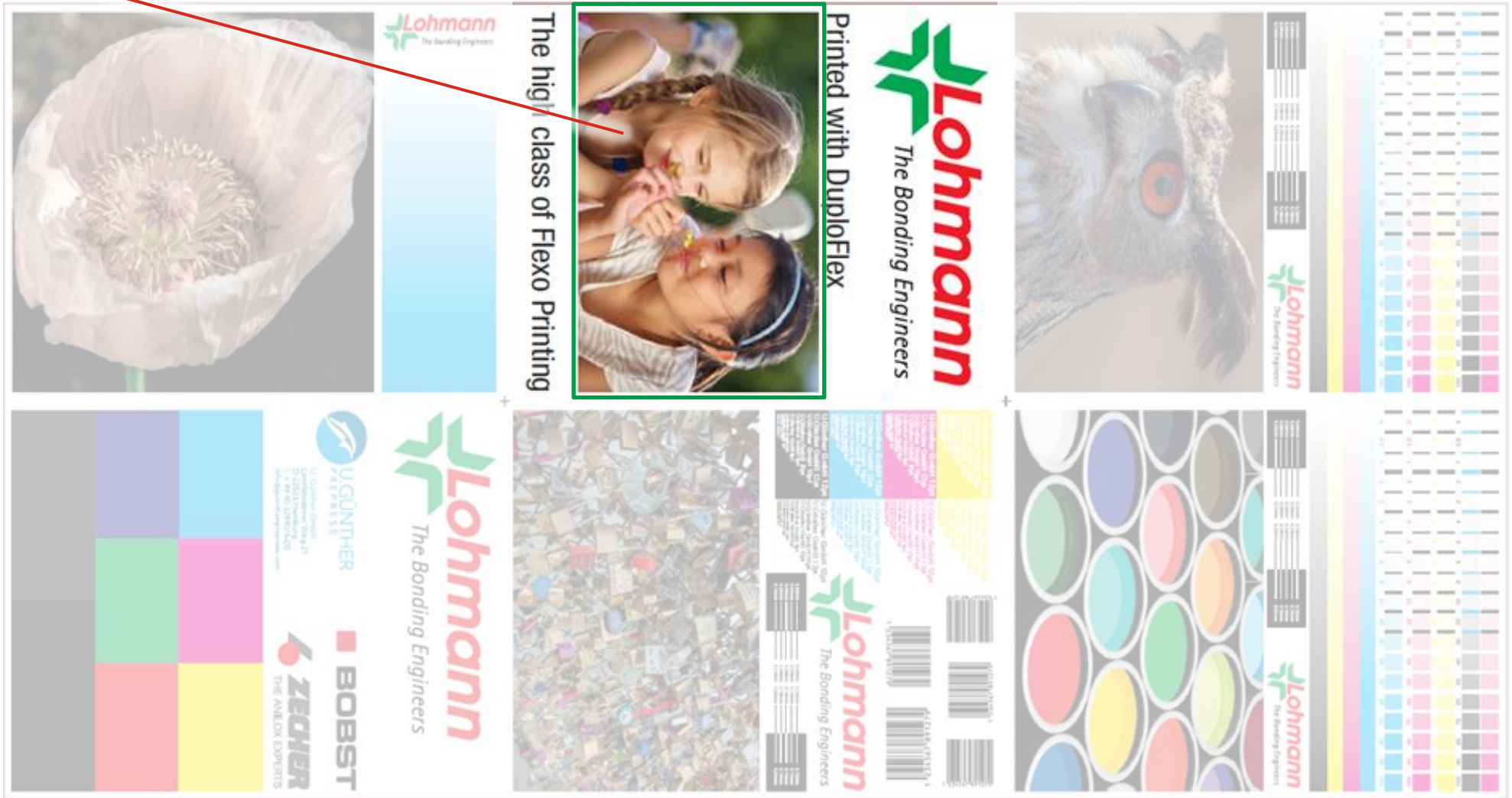
Print test form – content / tested features

Solids:



Print test form – content / tested features

Skin tones:



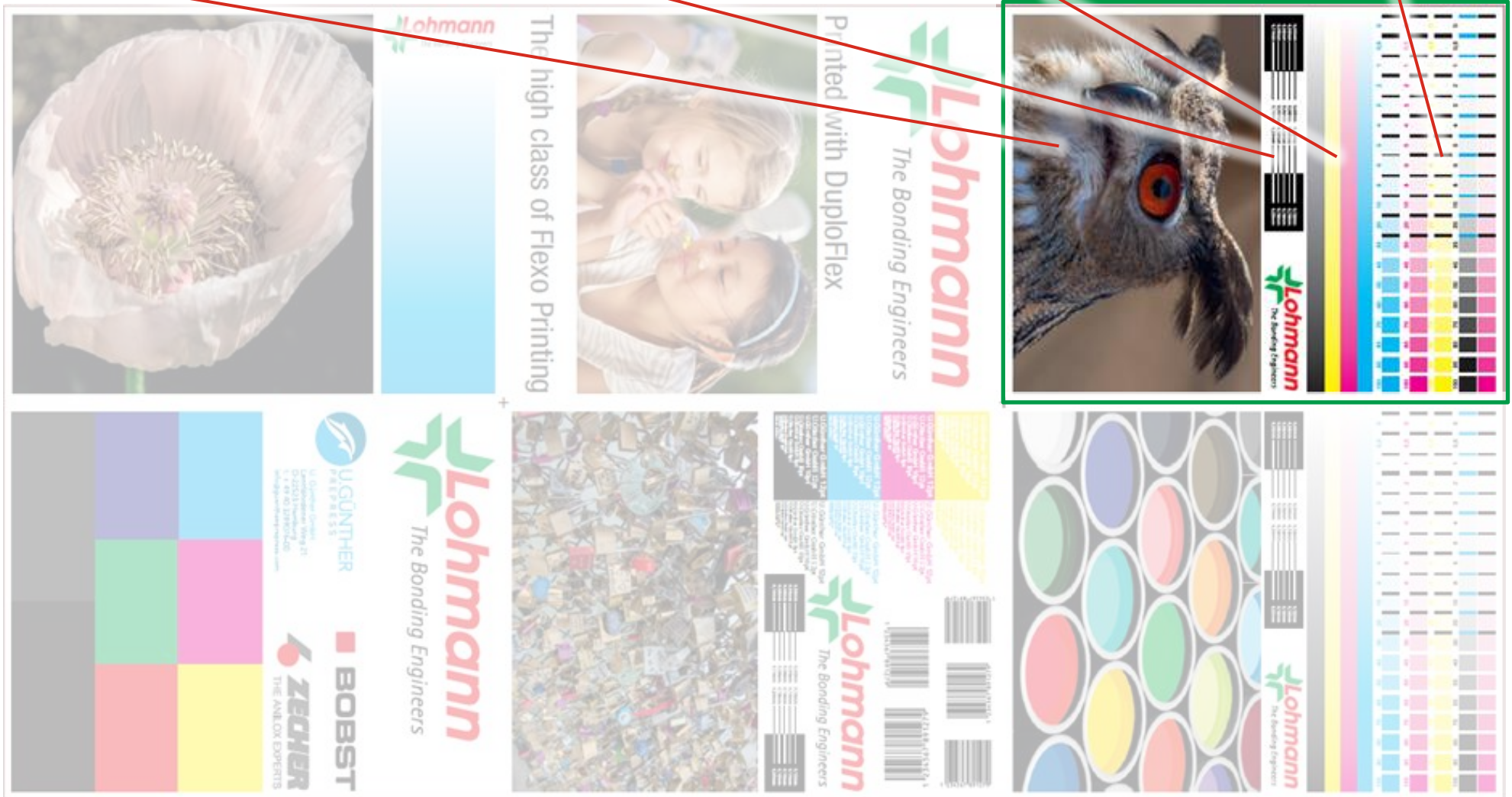
Print test form – content / tested features

Highlights in the picture; positive / negative lines; positive / negative letters; bar codes



Print test form – content / tested features

Highlights in the picture; positive / negative lines; vignettted halftone screen; halftone wedge



Print test form – content / tested features

Ink trapping fields; positive / negative lines; vignetted halftone screen; halftone wedge








4) Evaluation scheme




4) Evaluation scheme

Solid

Quality	Example	Comments
Good		Complete area coverage
Satisfactory		
Improvable		Area not fully covered with ink open areas visible without microscope




4) Evaluation scheme

80%

Quality	Example	Comments
Good		82% area coverage, free areas in right size
Satisfactory		
Improvable		Share of fully covered areas has increased significantly




4) Evaluation scheme

50%

Quality	Example	Comments
Good		50% area coverage, minimal dot gain
Satisfactory		
Improvable		Clear visible dot gain → effect on details in picture




4) Evaluation scheme

20%

Quality	Example	Comments
Good		Small dot gain
Satisfactory		
Improvable		Big dot gain

4) Evaluation scheme

Reverse & Positive

Quality	Example	Comments
Good		Details are clearly visible
Satisfactory		
Improvable		Less details due to too much pressure

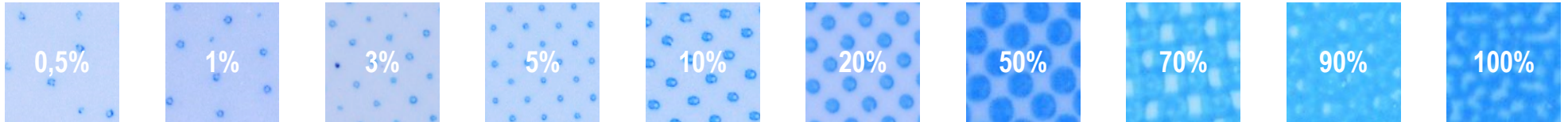


5) Results

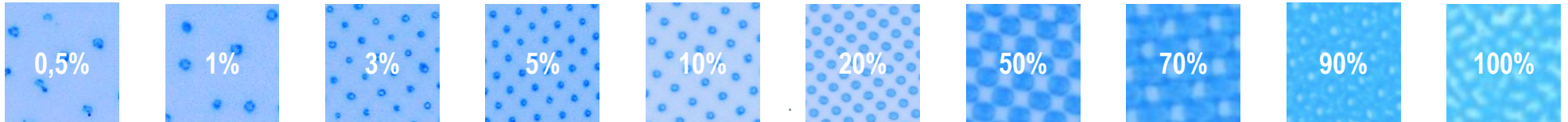
Direct comparison DuploFLEX® 5.1 – DuploFLEX® 5.4

(Asahi DEF 1.14 mm | machine speed: 300 m/min | printing impression: 60 µm)

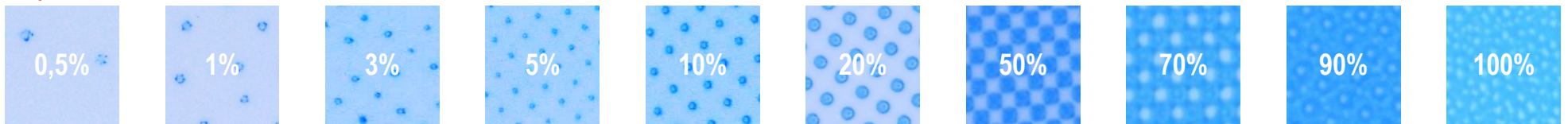
DuploFLEX® 5.1:



DuploFLEX® 5.2:



DuploFLEX® 5.3:



DuploFLEX® 5.4:





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