



Substrate Evaluation Report

Specialty Media for the HP -5500

Customer Name: Felix Schoeller jr Foto und Spezialpapiere GmbH & Co. KG
Customer Address: Burg Gretesch / 49086 Osnabrück

Substrate Name: E-Photo Lustre
Substrate Type: Synthetic paper
Weight: 250 gsm
I.D. Number: IL5500-09-047
Date of Evaluation: 10- Nov - 2009
Caliper: 0.245 mm
Evaluation Site: Israel
Evaluation Process: Specialty test

Evaluation	Measure	Result	Grade (# Stars)	Notes
Runability			***	
Simplex	# Jams	0		
Duplex	# Jams	0		

Fixing			***	
Peeling	100% K in 4 color mode, % ink remaining	100		
	100% K in monochrome mode, % ink remaining			Not tested anymore
	400% YMCK 100% each color, Visual Damage	Pass		
Flaking	<1 mm, % Coverage	400		

Blanket Compatibility			***	
Evaluation Result	Pass/Fail			Pass

Note Detail:

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The substrate certification procedure incorporates several processes. An initial screening evaluation is followed by a more comprehensive evaluation looking at the performance of the particular substrate within the press. This checks for:

- Runability:** The ability of the substrate to run smoothly through the press.
- Fixing:** Ink-substrate interaction as reflected in: The degree of ink fixing to the substrate - the adhesion as measured in a tape peel test of the image. The degree of flaking of the ink layer. The fixing properties are measured through a wide range of blanket temperatures.
- Blanket Compatibility:** Ink-transferability - the quality of ink transfer from the blanket to the substrate as reflected in highlight dots, thin lines, heavy images and image edge integrity. Blanket-substrate compatibility - the interaction between the substrate and the blanket is checked for 'Blanket Memory' effect, reflected in gloss or density differences between solids and background areas of the previously printed image.
Cleaner pages - Blankets are routinely maintained by running "cleaner pages", a self cleaning method used to refresh the blanket's release layer.

Star Rating

- ***** 3 stars: best performing papers; fewer print cleaners needed; no blanket memories at least up to 1.2 K impressions.
- **** 2 stars: recommended papers; some print cleaners may be needed; slight memories may be seen at 1.2 K impressions.
- *** 1 star: good papers; print cleaners generally required; some memories may be seen at 1.2 K impressions. Approved tape test, after one hour.

	Measure	***	**	*
		Best-performing substrate	Recommended substrate	Good substrate
Transport	Runability	1 jam or minor issues	2 jams or minor issues	3 jams or minor issues
Fixing	Peeling: 100% K, at 10 minutes	>97% or visually NO damage(ignoring gloss changes)	>90%	>80% at one hour
	Peeling: monochrome K, at 10 minutes	>97% or visually NO damage(ignoring gloss changes)	>80%	>70% at one hour
	Peeling: 400% YMCK, 100% of each color at 10 minutes	visually NO damage(ignoring gloss changes)	Any damage(visually)	Any damage(visually)
	Flaking: guillotine at 5 minutes	<1 mm at 400% K	<1 mm at 300% K	<1 mm at 200% K
Blanket compatibility	Cleaner pages OK after 1.2 K	2nd cleaner page clean	4th cleaner page clean	6th cleaner page clean