



Specialty Substrate Evaluation Report

Certified for
HP Indigo

Supplier Information	
Supplier Name	Reflex GmbH & Co. KG
Supplier Address	Veldener Str. 121 - 131, Düren, Nordrhein-Westfalen, 52349
Supplier Country	Germany

Product Information	
Product Name	Spectral* digital
Product Category	Other
Grammage (gsm) / Basis weight (#)	200#
Thickness (microns/caliper)	160 um

Certification Number	RI7500-17-5052
Certification Center	RIT
Date of Evaluation	08/08/2017
Evaluated on	HP 7500
Certified for	7500, 5000, 5500, 5600 multi-shot, 7000, 7600, 7800 & 7900
Evaluation Process	Specialty Media

Evaluation	Measurement	Result	Grade (stars)	Comments
Runability			★★★	
Simplex	Number of Jams	0		
Duplex	Number of Jams	0		
Ink Adhesion / Fixing			★★★	
Peeling	100% K in 4 color mode, % in remaining	100%		
	400% YCMK 100% each color Visual Damage	100%		
Flaking	<1mm, % Coverage	400%		
Blanket Compatibility			★★★	
Cleaner Pages	1st clean page after 12K impressions			
White Ink Recommended	>80% after 10 or 60 min	N/A		
Color Registration	CPR quality job	Pass		
Evaluation Result		Pass		

Comment Detail:

The substrate certification procedure incorporates several processes.

This checks for:

Runability:

The ability of the substrate to run smoothly through the press in various print modes.

Fixing:

Ink-substrate interaction as determined by: 1) The degree of ink adhesion to the substrate for standard applications as measured in a tape peel test of the image; and 2) The degree of flaking of the ink layer.

Blanket Compatibility:

Blanket-substrate interaction as determined by: 1) Ink-transferability, which is the quality of ink transfer from the blanket to the substrate as reflected in highlight dots, thin lines, heavy images and image edge integrity; 2) 'Blanket Memory' effects, reflected in gloss or density differences between solids and background areas of the previously printed image; and 3) Number of cleaner pages, in which blankets are routinely maintained by performing a self cleaning procedure ("cleaner pages") used to refresh the blanket's release layer.

Color registration (CPR):

The ability of the substrate to be printed with acceptable color-to-color registration in the four color process. Synthetic materials are generally more sensitive to CPR issues.

Star Rating

★★★★ Best performing substrate: fewer print cleaners needed; no blanket memories at least up to 1.2K impressions.

★★★ Recommended substrate: some print cleaners may be needed; slight memories may be seen up to 1.2K impressions

★ Good substrate: print cleaners generally required; some memories may be seen by 1.2K impressions.

		★★★★	★★★	★
	Measurement	Best-performing substrate	Recommended substrate	Good substrate
Runnability	Runnability	1 jam or minor issues	2 jams or minor issues	3 jams or minor issues
Fixing	Peeling: 100% K, at 10 minutes	Visually NO damage (ignoring gloss changes)	>90%	>80% 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
Color registration (CPR)	CPR quality job	Pass/Fail		

The specialty test is a shorter test compared to the standard certification procedure, and is intended for media where low print volumes are expected. In addition to runnability, fixing and blanket compatibility, selected Print Quality parameters such as Color Plane Registration (CPR) are also evaluated. For certain substrates, particularly synthetics, special press procedures may need to be applied to obtain acceptable CPR.

HP Indigo customers must test per their specific application needs and determine if the media meets customer requirements.

This substrate is certified for the next two years from the date of evaluation, provided there is no change to the paper properties or production processes. At the end of two years from the original evaluation date, if there have been no changes in paper properties or production processes, the certification can be extended for another two years. After four years from the original certification date, a new certification is required.



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