Specialty Commercial Substrate Evaluation Report

For HP Indigo

Supplier Contact Information	
Supplier Name	
Supplier Address	
Supplier Country	
Product Name	
Product Category	
Grammage (gsm)/Basis weight (#)	
Microns/Caliper	
Certification Number	
Certification Center	
Date of Evaluation	
Evaluated on	
Certified for	
Evaluation Process	

Evaluation	Measure	Result	Grade (stars)	Comments
Runability				
Simplex	Number of Jams			
Duplex	Number of Jams			
Fixing				
Peeling	100% K in 4 color mode, % ink remaining			
	400% YMCK 100% each color, Visual Damage			
Flaking	<1 mm, % Coverage			
Blanket Compatibility				
White Ink Recommended				
Color Registration	CPR quality job			
Evaluation Result				

Comment Detail: _____

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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-substrate interaction as determined by:
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: no blanket memories or very minor memories.

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

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

	Measurement	★★★ Best-performing substrate	★★ Recommended substrate	★ Good substrate
Transport	Runnability	No jam and minor issues	1 jam or minor issues	1 jam and 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	<1mm at 400% K	<1 mm at 300% K	<1 mm at 200% K
Blanket Compatibility	Cleaner sheets clean after 1.2 K	1st cleaner sheet is clean	3rd cleaner sheet is clean	5th cleaner sheet is 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.

Certification Validity
This substrate is certified for the next two years from the date of evaluation, provided there is no change to the substrate 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.