



# Specialty Substrate Evaluation Report



Supplier Information	
Supplier Name	Sihi
Supplier Address	538 Main Street, Fiskeville, Rhode Island, 02823
Supplier Country	USA

Product Information	
Product Name	Sihi DuraCopy Synthetic Paper for HP Indigo
Product Category	Synthetic
Grammage (gsm) / Basis weight (#)	280 gsm
Thickness (microns/caliper)	8 mils/8 Pts

Certification Number	RI7000-13-3162
Certification Center	RIT
Date of Evaluation	08/23/2013
Evaluated on	HP 7000
Certified for	7000, 5000, 5500, 5600 multi-shot, 7500 & 7600
Evaluation Process	Specialty Media

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



# Specialty Substrate Certificate

Supplier Name                  Sihl  
Substrate Name                Sihl DuraCopy Synthetic Paper for HP  
Indigo  
Thickness / Weight    8 mils/8 Pts                                  280 gsm  
Certification Date        08/23/2013  
Certification Number RI7000-13-3162

This substrate is hereby certified for HP Indigo digital press(es)  
7000, 5000, 5500, 5600 multi-shot, 7500 & 7600

For star ratings, please refer to the HP Indigo Media Solutions Locator  
This substrate has been evaluated under the standard comprehensive  
testing procedure, in conjunction with HP Indigo R&D substrate certification criteria.

Please note: By certifying your product this means you support its use on HP Indigo equipment and its uses, and that you will perform any due diligence necessary should complaints arise. Further, by receiving approval, you agree that if there are any manufacturing or product changes that may impact substrate performance you will have the product re-tested/re-certified, to eliminate the risk of issues in the field as a result. Certification is valid for 2 years, at which time if there are no changes to paper properties or production processes, the certification can be extended for another two years. After 4 years from the original certification date, a new certification is required.

In conjunction with Rochester Institute of Technology (RIT) - USA

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This is an HP Indigo digital print.