



# Over Print Varnish Performance Program Report



Supplier Information	
Supplier Name	Flint Group, Sweden AB
Supplier Address	Gutenbergsgatan 1 231 25 Trelleborg

Product Information	
OPV Name	UXH00080 Digicoat HP High Gloss TTR
Manufacturing Facility	Sweden
OPV Type	UV Curable
Coating Finish	Gloss
Substrate Application	BOPP
Press	ws-6000 Digital Press
Ink Type	HP ElectroInk 4.5

Coating Device	AB Graphics Omega Digicoat
Date of Evaluation	01/27/2015
Anilox Roller	360 Line Screen, 7BCM, 10.85 cm <sup>3</sup> /m <sup>2</sup> 60 Deg ART Engraving
Corona Intensity (kW)	0.85
Dryer Temp (F/C)	N/A
UV Intensity	Set Point 50% (UV GEW VPC 35 412 W / in <sup>2</sup> @ 100%)
Coating Speed	15.24 (m/min) 50 (ft/min)
Evaluation Process	Full Baseline

Evaluation	Measurement	Result	Grade (stars)
Adhesion	Tape pull test	Best Performance	☆☆☆
Mechanical Wear	Resistance to peeling, scuffing, abrasion, creasing, bending, cross cut	Good Performance	☆☆
Solvent Resistance	Resistance to water, IPA, ISOPAR	Good Performance	☆☆
Optical	Gloss, density, whiteness, shade	Best Performance	☆☆☆
Heat Resistance	Heat seal, aging, sterilization, microwave, hot surface		
Sunlight Exposure	Color change, $\Delta E_{00}$		

## Comment Detail:

	★★★★	★★★	★
Evaluation	Best Performance	Good Performance	Limited Performance
<b>Mechanical Wear</b>	All evaluations acceptable	4 evaluations acceptable	< 4 evaluations acceptable
<b>Solvent Resistance</b>	All evaluations acceptable	2 evaluations acceptable	< 2 evaluations acceptable
<b>Optical Tests</b>	No color changes/yellowing	Mild color changes/yellowing	Visual color changes/yellowing
<b>Heat Resistance</b>	5-6 evaluations acceptable	3-4 evaluations acceptable	1-2 evaluations acceptable
<b>Aging / Sunlight Exposure</b>	0-2 $\Delta E_{00}$	3-4 $\Delta E_{00}$	>4 $\Delta E_{00}$

### Star Rating

- ★★★★ Best performance: acceptable results on all conditions evaluated.
- ★★★ Good Performance: acceptable results on many of the conditions evaluated.
- ★ Limited Performance: acceptable results on some of the conditions evaluated.

The OPV tested was applied to an HP Indigo certified substrate for the HP Indigo ws6000 Digital Press. Test results correlate solely to the listed substrate and may not reflect similar performance on other certified or in-house control substrates.

Please contact the coating supplier to discuss the full detailed report if required.