



Over Print Varnish Performance Program Report



Supplier Information		
Supplier Name	Michelman Inc.	
Supplier Address	9080 Shell Rd.	
	Cincinnati, OH 45236 USA	

Product Information		
OPV Name	DigiGuard Gloss 115	
Manufacturing Facility	USA	
ОРУ Туре	Aqueous	
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	10/27/2016
Anilox Roller	360 Line Screen, 7BCM, 10.85 cm³/m² 60 Deg ART Engraving
Corona Intensity (kW)	0.84
Dryer Temp (F/C)	183 F/ 84 C
UV Intensity	N/A
Coating Speed	15.24 (m/min) 50 (ft/min)
Evaluation Process	Full Baseline

Evaluation	Measurement	Result	Grade (stars)
Adhesion	Tape pull test	Best Performance	2
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	2
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
Mechanical Wear	All evaluations acceptable	4 evaluations acceptable	< 4 evaluations acceptable
Solvent Resistance	All evaluations acceptable	2 evaluations acceptable	< 2 evaluations acceptable
Optical Tests	No color changes/yellowing	Mild color changes/yellowing	Visual color changes/yellowing
Heat Resistance	5-6 evaluations acceptable	3-4 evaluations acceptable	1-2 evaluations acceptable
Aging / Sunlight Exposure	0-2 ∆E ₀₀	3-4 ∆E ₀₀	>4 \(\Delta \text{E}_{00} \)

Star Rating



 \bigstar 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.



