



Over Print Varnish Performance Program Report



Supplier Information			
Supplier Name	ASHLAND INC.		
Supplier Address	5200 Blazer Parkway		
	Dublin, OH 43017		
Product Information			
OPV Name	PureRad DP9000 High Gloss		
Manufacturing Facility	USA		
OPV Type	UV Curable		
Coating Finish	High Gloss		
Substrate Application	Polypropylene		
Press	ws-6000 Digital Press		
Ink Type	HP ElectroInk 4.5		
Coating Device	AB Graphics Omega Digicoat		
Date of Evaluation	1/30/2014		
Anilox Roller	360 Line Screen, 7BCM, 10.85 cm³/m² 60 Deg ART Engraving		
Corona Intensity (kW)	0.87		
Dryer Temp (F/C)	N/A		
UV Intensity	Set Point 50% (UV GEW VPC 35 412 W / in² @ 100%)		
Coating Speed	15.24 (m/min) 50 (ft/min)		
Evaluation Process	Full Baseline, Heat Resistance		

Evaluation	Measurement	Result	Grade (stars)
Adhesion	Tape pull test	Best Performance	2
Mechanical Wear	Resistance to peeling, scuffing, abrasion, creasing, bending, cross cut	Best Performance	**
Solvent Resistance	Resistance to water, IPA, ISOPAR	Good Performance	☆☆
Optical	Gloss, density, whiteness, shade	Good Performance	☆ ☆
Heat Resistance	Heat seal, aging, sterilization, microwave, hot surface	Best Performance	**
Sunlight Exposure	Color change, ΔE ₀₀	N/A	

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 _∞	>4 \(\Delta \text{E}_{00} \)	

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.



