



Over Print Varnish Performance Program Report



Supplier Information	
Supplier Name	ASHLAND INC.
Supplier Address	5200 Blazer Parkway Dublin, OH 43017

Product Information	
OPV Name	PureKote DP9510 High Gloss
Manufacturing Facility	USA
OPV Type	Water Based
Coating Finish	High Gloss
Substrate Application	Estate 8 Wine Label
Press	ws-6000 Digital Press
Ink Type	HP ElectroInk 4.5

Coating Device	AB Graphics Omega Digicoat
Date of Evaluation	1/31/2014
Anilox Roller	360 Line Screen, 7BCM, 10.85 cm ³ /m ² 60 Deg ART Engraving
Corona Intensity (kW)	0.87
Dryer Temp (F/C)	185 °F / 85 °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	☆☆☆
Mechanical Wear	Resistance to peeling, scuffing, abrasion, creasing, bending, cross cut	Best Performance	☆☆☆
Solvent Resistance	Resistance to water, IPA, ISOPAR	Best Performance	☆☆☆
Optical	Gloss, density, whiteness, shade	Best Performance	☆☆☆
Heat Resistance	Heat seal, aging, sterilization, microwave, hot surface		
Sunlight Exposure	Color change, ΔE_{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 ΔE_{00}	3-4 ΔE_{00}	>4 ΔE_{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.