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COLORADO 1650 PRINTER INK CONSUMPTION TESTING

Addendum to Colorado 1640 benchmark test



Colorado 1650 printer

SMART CHANGE STARTS HERE.



INTRODUCTION

With both the Colorado 1640 and the Colorado 1650 from Canon, customers can expect significant ink savings versus competition (including waste). The reason is that UVgel technology has a much more constant ink usage across different media, compared to, for example, HP Latex ink. To prove that the marketing claims about ink savings made for the Colorado 1640 extend to the Colorado 1650, we have measured and assessed the actual ink usage of the Colorado 1650 according to the same procedure as used by Buyers Laboratories Inc. (BLI) in our previous assessment. This addendum lists the measured ink consumptions for the Colorado 1650 and illustrates the ink savings compared to the same competitive technologies as the original comparison.

1. TEST OBJECTIVE

We evaluated the ink consumption of the Colorado 1650, and compared that to the devices in the original Colorado 1640 benchmark: Roland's seven-color eco-solvent ink SOLJET EJ-640 and HP's six-color latex ink Latex 570.

The evaluation comprised printing two test files (Onyx and Ink Consumption) twice on each device on Avery Dennison MPI 2000 media. The Onyx test file was configured and printed as "4-Up," which measured approximately 11.18 ft² (1.04 m²), while the larger Ink Consumption file, which measured approximately 21.53 ft² (2.00 m²), was printed as seen in the thumbnail image below. The high quality driver setting was used for printing the samples on the Colorado 1650, in both high quality gloss and matte quality. The most recent media profile was taken from the Canon Media Library. Lastly, a Banner test file was configured and printed as "2-Up," which measured approximately 30.23 ft² (2.81 m²), and printed twice on Canon IJM650 banner media in both gloss production and matte production print modes with the IJM650 media profile. Note that this is slightly different from the original benchmark that used the Starflex SFF-15 banner material.

Additionally, like-for-like color management settings were utilized: in the Onyx RIP, the CMYK ICC profile was set to Fogra39, and the RGB profile was set to AdobeRGB1998. The rendering intent for images and vector were set to Relative colorimetric with black-point compensation. The subsequent ink usage results for the Colorado 1650 taken from the device's web server immediately after printing each test file are recorded below.

The above testing method has been validated by Buyers Laboratory Inc.



Onyx Test File



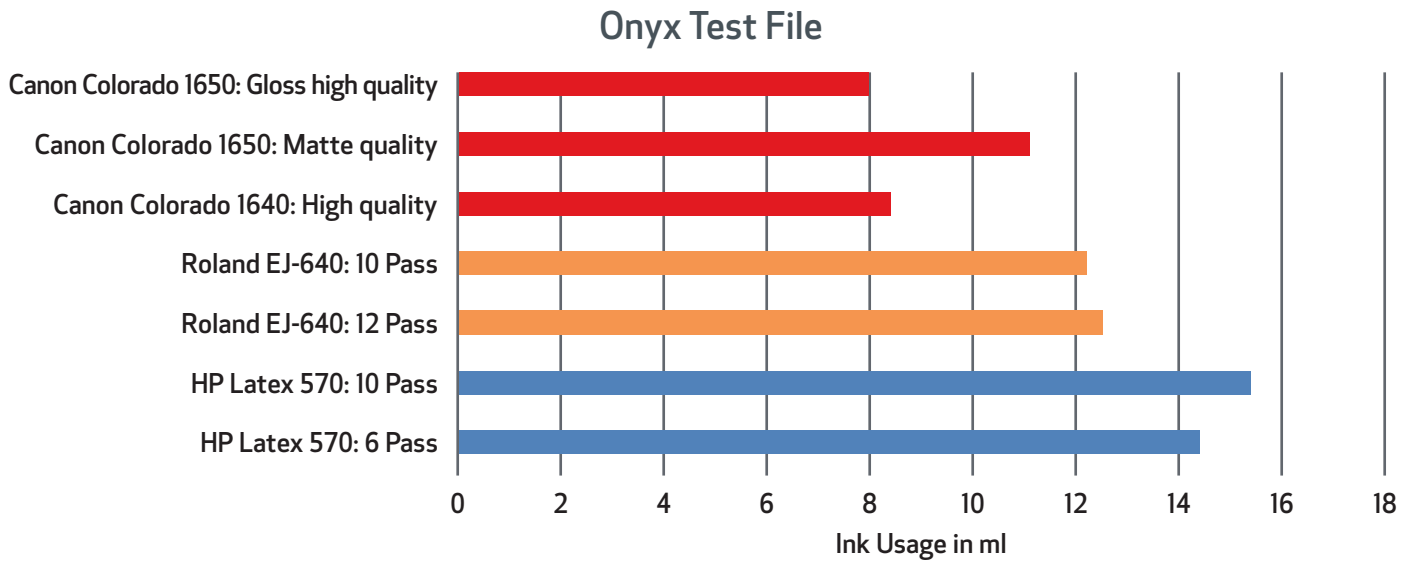
Outdoor Banner Test File



Ink Consumption Test File

2. TEST RESULTS

ONYX TEST FILE - Printed on Avery Dennison MPI 2000 Media				
Device	Media Profile Used	Print Driver Quality Setting	Ink Usage (in ml.)	Average Usage for two print runs (in ml.)
Canon Colorado 1650	MPI 2000	Gloss high	7.89	7.89
	"	"	7.89	
	"	Matte quality	11.02	11.02
	"	"	11.02	
Canon Colorado 1640 [from previous benchmark]	MPI 2000	High quality	8.43	8.43
	"	"	8.43	
Roland EJ-640 [from previous benchmark]	MPI 2000	10 Pass	12.24	12.24
	"	"	12.24	
	Generic Vinyl	12 Pass	12.50	12.50
	"	"	12.50	
HP Latex 570 [from previous benchmark]	MPI 2000	10 Pass	15.39	15.41
	"	"	15.43	
	Generic Vinyl	6 Pass	14.35	14.37
	"	"	14.39	

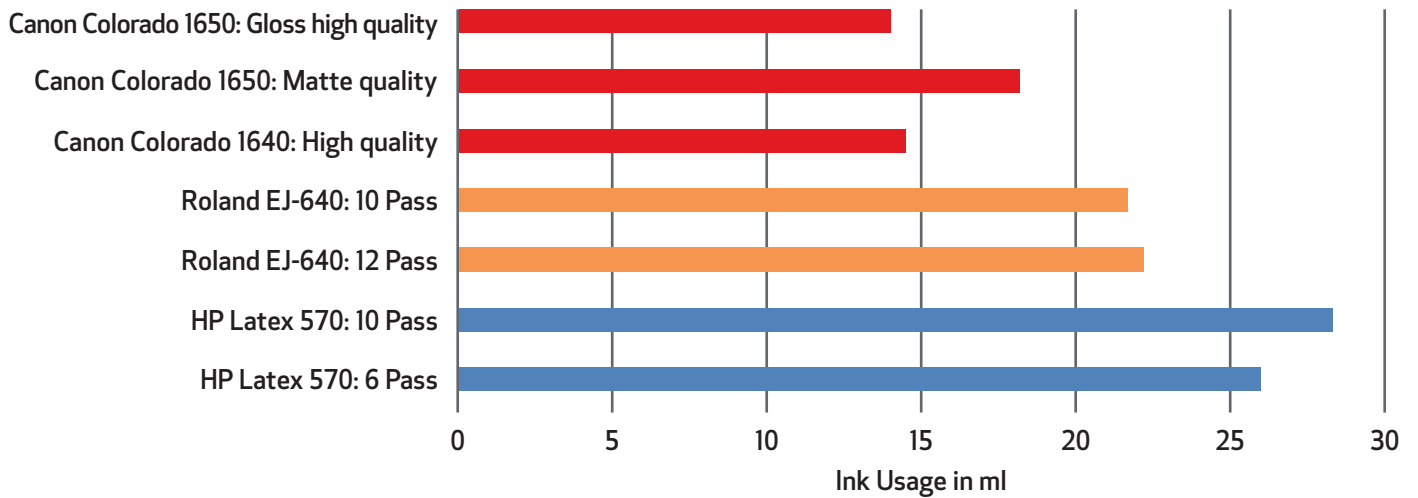


The above testing method and results have been performed according to the procedure validated by Buyers Laboratory Inc.

INK CONSUMPTION TEST FILE - Printed on Avery Dennison MPI 2000 Media

Device	Media Profile Used	Print Driver Quality Setting	Ink Usage (in ml.)	Average Usage for two print runs (in ml.)
Canon Colorado 1650	MPI 2000	Gloss high	14.05	14.05
	"	"	14.05	
	"	Matte quality	18.21	18.21
	"	"	18.21	
Canon Colorado 1640 [from previous benchmark]	MPI 2000	High quality	14.53	14.53
	"	"	14.53	
Roland EJ-640 [from previous benchmark]	MPI 2000	10 Pass	21.77	21.77
	"	"	21.77	
	Generic Vinyl	12 Pass	22.28	22.28
	"	"	22.28	
HP Latex 570 [from previous benchmark]	MPI 2000	10 Pass	28.32	28.40
	"	"	28.47	
	Generic Vinyl	6 Pass	26.05	26.05
	"	"	26.05	

Ink Consumption test file

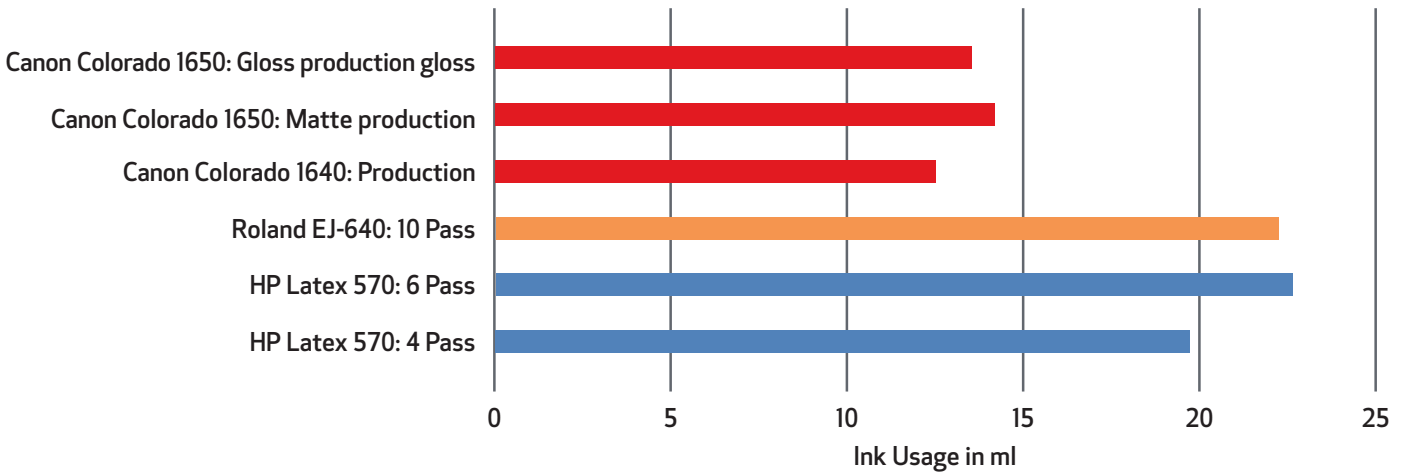


The above testing method and results have been performed according to the procedure validated by Buyers Laboratory Inc.

OUTDOOR BANNER TEST FILE

Device	Media Profile Used	Print Driver Quality Setting	Ink Usage (in ml.)	Average Usage for two print runs (in ml.)
Canon Colorado 1650	IJM650	Gloss	13.52	13.52
	"	"	13.52	
	"	Matte	14.16	14.16
	"	"	14.16	
Canon Colorado 1640 [from previous benchmark]	Starflex SFF-15	Production	12.49	12.49
	"	"	12.49	
Roland EJ-640 [from previous benchmark]	Generic Banner	10 Pass	22.19	22.19
	"	"	22.19	
HP Latex 570 [from previous benchmark]	Starflex SFF-15	6 Pass	22.58	22.60
	"	"	22.61	
	Generic Banner	4 Pass	19.63	19.71
	"	"	19.78	

Outdoor Banner test file



The above testing method and results have been performed according to the procedure validated by Buyers Laboratory Inc.



3. SUMMARY

- Low ink consumption is a core characteristic of Canon's UVgel technology and the Colorado 1650 printer has similar efficient ink consumption when compared to the Colorado 1640:
 - The Colorado 1650 has ink savings of on average 40% for the three test files when compared to the Roland SOLJET EJ-640 printer and the HP Latex 570 printer for the gloss print modes.
- Ink consumption in gloss mode is on average for the Colorado 1650 the same as for the Colorado 1640.
- The ink consumption for the matte printing modes are more dependent on the media and media profile, and range from on average 5% higher compared to the gloss prints for the Outdoor Banner test print, to an additional 35% for the Onyx and Ink Consumption test prints on MPI 2000, compared to the equivalent gloss prints.
- Conclusion: For all test prints, the ink consumption of the Colorado 1650 is significantly lower than the Roland SOLJET EJ-640 and the HP Latex 570 printer, with advantages up to 40%.
- When assuming a 50-50 split between gloss and matte printing for a typical Colorado 1650 customer, the average ink savings compared to the competitive devices and technologies in the test are between 25% and 40%.

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