

ISO/IEC 24734 Printing Productivity Report: Office Category
 FDIS ISO/IEC 29183 Copying Productivity Report

Full Detailed Test Reports
 HP ENVY 4510 Series All-in-One

Printing device and test settings

Test Start Date and Time	2/18/2015 9:20AM
Tester	Sallan
Machine product number	K9H46A
Machine name/model	HP ENVY 4510 All-in-One Printer
Firmware Version	COM117N1507ER
Colour or B&W	Colour
Temperature and humidity	23C, 50%
Voltage	115 VAC
Test End Date and Time	2/25/2015 5:00PM

Item	Value
Driver version	EN4510_55
Media / Quality Setting	Default / Default
Simplex B&W settings	Driver was set to "print in grayscale, black ink only"
Duplex B&W settings	Driver was set to "print in grayscale, black ink only"
Setting N set count	Application
Collating function	No
Paper sending direction	Default
Paper size setting	Default
Paper feeding	Standard cassette
Paper exit	Standard exit tray
Output orientation	Default (face up)
Duplexing ADF Unit	No
Duplexing Print Unit	Yes
Paper Manufacturer	HP
Weight	75lb
Size	A4
Paper type/name	HP Office Paper

Summary Reports

ISO/IEC 24734	Color	FSOT (seconds)	ESAT (ipm)
Single Sided	56	6	
Two Sided	86	3	
B&W	39	9	
Two Sided	73	3	

Notes: 1) ipm = Images Per Minute and is equivalent to ppm or Pages Per Minute
 2) For Simplex B&W results, Driver was set to "print in grayscale, black ink only"
 3) For Duplex B&W results, Driver was set to "print in grayscale, black ink only"
 4) Scale content for A4 pr 8.5x11 paper sizes set to off for Word and Excel

FDIS ISO/IEC 29183	Color	FCOT (seconds)	sESAT (ipm)
Color	25		
B&W	18		7.5

Notes: 1) ipm = Images Per Minute and is equivalent to ppm or Pages Per Minute

Full Reports

ISO/IEC 24734	Office Category	FCOT (sec)	EFTP (ipm)			sESAT (ipm)	
			1 Set	1 Set+ 30 seconds	1 Set+ 4 Minutes		
Color	Single Sided	PDF (# sets)	63.86	3.75	4.14	4.42	4.62
		Word (# sets)	34.80				9.87
		Excel (# sets)	66.74				4.19
	Average	56	2.41	2.41		6	
	Two Sided	PDF (# sets)	104.75	2.29	2.41		2.53
		Word (# sets)	55.44				5.10
Excel (# sets)		94.99				2.79	
Average	86	5.74	6.99	7.50	3		
B&W	Single Sided	PDF (# sets)	41.78	5.74	6.99	7.50	7.90
		Word (# sets)	30.08				12.29
		Excel (# sets)	42.22				7.89
	Average	39	2.93	3.18		9	
	Two Sided	PDF (# sets)	81.67	2.93	3.18		3.32
		Word (# sets)	61.10				4.58
Excel (# sets)		74.60				3.68	
Average	73				3		

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 4) Scale content for A4 pr 8.5x11 paper sizes set to off for Word and Excel

FDIS ISO/IEC 29183	Color	Page	FCOT (sec)	sEFTP (ipm)			sESAT (ipm)
				1 Copy	1 Copy + 30 seconds	1 Copy + 4 Minutes	
Color	Page 1	(# copies)	28.71	2.09	2.69	3.51	3.63
		(# copies)	25.13	2.38	4.44		5.70
		(# copies)	26.39	2.27	3.30		3.90
		(# copies)	30.19	1.98	2.56		3.05
		Average	26	2	3	3	4
Black	Page 2	(# copies)	18.39	3.26	5.83	6.12	6.92
		(# copies)	14.31	4.19	8.29		10.05
		(# copies)	16.18	3.70	6.52		7.83
		(# copies)	19.33	3.10	4.69		5.68
		Average	18	3	6	6	7.5

Notes: 1) ipm = Images Per Minute and is equivalent to ppm or Pages Per Minute

Test system parameters

Item	Value
Computer	HP dv6812us Notebook PC
Processor	AMD Turion TL-60 2.0 GHz, 1 MB L2 cache
System Chip Set	Nvidia/Southbridge: Nvidia MCP7M
System Board	Standard system device, default system BIOS
System Memory	3GB PC2-4300 DDR2 SDRAM
Hard Drive subsystem	Western Digital WD2500BEVS 250 GB
Video subsystem	Nvidia GeForce 7150M
Optical Drive	Panasonic/Hewlett-Packard, DVD+RW and CD-RW
IO subsystem	Built in
USB subsystem	USB 2.0
Printer Connection	USB 2.0
Operating System	Microsoft Windows 7 Professional 64-bit SP1
Printing Applications	Microsoft Office Word 2010 32-bit SP1 Microsoft Office Excel 2010 32-bit SP1
Test Files and location	Adobe Reader X.10.1.2 Office Category files, hard drive