

ISO/IEC 24734 Printing Productivity Report: Office Category  
 ISO/IEC 29183 Copying Productivity Report  
 ISO/IEC 17629 First Page Out Time Report

Full Detailed Test Reports  
 HP OfficeJet 9012 All-in-One Printer

Printing device and test settings	
Test Start Date and Time	10/24/18 12:00:00 AM
Tester	Lylypes
Machine product number	16R344
Machine name/model	HP OfficeJet 9012 All-in-One Printer
FW Version	1840A
Colour or B&W	Color
Temperature and humidity	22 °C and 62%
Voltage	240 volts AC
Test End Date and Time	10/26/18

Modes and Settings	Item	Value
Settings	Driver version	42.0.3.243
	Media / Quality Setting	Default / Default
	Simplex B&W settings	Print in grayscale, black ink only
	Duplex B&W settings	Print in grayscale, black ink only
Paper Path	Setting N set count	Application
	Collate function	Enabled in Application
Paper	Paper sending direction	Default
	Paper size setting	Default
	Paper feeding	Standard cassette
	Paper exit	Standard exit tray
	Output orientation	Default (Back up), portrait
	Duplexing ADF Unit	Yes
	Duplexing Print Unit	Yes
Paper	Paper Manufacturer	Print: HP Copy: HP
	Weight	Print: 80gsm Copy: 80gsm
	Size	Print: A4 Copy: A4
	Paper type/name	Print: HP Everyday Paper Colorlok Copy: HP Everyday Paper Colorlok

Summary Reports		
ISO/IEC 24734	FSOT (seconds)	ESAT (gpm)
Color	Single Sided	23
	Two Sided	20
B&W	Single Sided	20
	Two Sided	19

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

FDIS ISO/IEC 29183		
Color	FCOT (seconds)	sESAT (gpm)
Color	14	14
B&W	8	19

Notes: 1) gpm = Images Per Minute and is equivalent to ppm in Pages Per Minute

ISO/IEC 17629		
Color	Simplex	FPOT From Ready (sec)
Color	Simplex	9
B&W	Simplex	9

Notes: 1) For B&W results, Print in grayscale, black ink only

Full Reports						
ISO/IEC 24734						
Color	Office Category	FSOT (sec)	EFTP (gpm)			sESAT (gpm)
			1 Set	1 Set + 30 seconds	1 Set + 4 Minutes	
Color	Single Sided	PDF (# sets)	27.00	9.00	12.00	14.00
		Word (# sets)	17.00	1	1	22.50
		Excel (# sets)	22.00	1	1	14.90
	Two Sided	Average	23	7.00	8.00	16
		PDF (# sets)	34.00	7.00	8.00	10.00
		Word (# sets)	24.00	1	1	14.30
B&W	Single Sided	Excel (# sets)	29.00	1	1	10.50
		Average	30	11.00	16.00	11
		PDF (# sets)	22.00	11.00	16.00	17.00
	Two Sided	Word (# sets)	17.00	1	1	23.50
		Excel (# sets)	18.00	1	1	19.00
		Average	20	8.00	11.00	20
B&W	Single Sided	PDF (# sets)	28.00	8.00	11.00	13.10
		Word (# sets)	23.00	1	1	15.10
		Excel (# sets)	25.00	1	1	12.90
	Two Sided	Average	26	8	11	13

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

FDIS ISO/IEC 29183						
Color	Page #	FCOT (sec)	sEFTP (gpm)			sESAT (gpm)
			1 Copy	1 Copy + 30 seconds	1 Copy + 4 Minutes	
Color	Page 1 (# copies)	8.30	7.00	12.00	13.00	13.10
	Page 2 (# copies)	6.80	9.00	19.00	9	20.70
	Page 3 (# copies)	7.60	8.00	13.00	8	14.00
	Page 4 (# copies)	9.30	6.00	10.00	8	10.90
Black	Average (# copies)	8	7	12	11	14
	Page 1 (# copies)	6.70	9.00	17.00	15	19.00
	Page 2 (# copies)	6.40	10.00	19.00	15	21.30
	Page 3 (# copies)	6.70	9.00	17.00	15	18.60
Black	Page 4 (# copies)	6.70	9.00	17.00	15	18.30
	Average (# copies)	6	9	17	15	19

Notes: 1) gpm = Images Per Minute and is equivalent to ppm in Pages Per Minute

ISO/IEC 17629			
Color	Simplex	FPOT from Ready (sec)	Recovery Time (sec)
Color Simplex	PDF	10.70	10.70
	Word	8.30	8.30
	Excel	9.00	9.00
	Average	10.00	10.00
	Delay Time	30 sec	120 min
B&W Simplex	PDF	9.00	17.00
	Word	8.10	8.10
	Excel	7.60	7.60
	Average	8.90	120 min
	Delay Time	30 sec	120 min

Notes: 1) For B&W results, Print in grayscale, black ink only  
 2) FPOT from Sleep Average + FPOT from Ready Average + Recovery Time  
 3) Scale content for A4 for 8.5x11 paper sizes set to off for Word and Excel

Test system parameters		
Item	Value	
Test System	Computer	HP Envoy 15 Notebook
	Processor	Intel Core i5-4210U 1.7GHz
	System Disk Set	Intel Celeron
	System Board	229A
	System Memory	8GB 1600MHz DDR3L
	Hard Drive subsystem	4GB 220GB of storage
	Video subsystem	Intel HD graphics
	Optical Drive	HP DVDRW G8-B0N
	I/O subsystem	Built in
	USB subsystem	USB 2.0/3.0
Software	Printer Connection	USB 2.0
	Operating System	Microsoft Windows 10 Enterprise
	Printing Applications	Microsoft Office Word 2016 MSO 64-bit Microsoft Office Excel 2016 64-bit
	Test Files and location	Apple iWork Reader Doc, Version 2018.099.20044 Office Category files, hard drive