

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 Pro 9110s series

Printing device and test settings	
Test Start Date and Time	07/04/23 12:00:00 AM
Tester	Mizan
Machine product number	84021A
Machine name/model	HP OfficeJet Pro 9110s
FW Version	8.15.1.5
Colour or B&W	Color
Temperature and humidity	23deg, 64%
Volume	2201 Pgs
Test End Date and Time	07/11/23 12:00:00 AM

Item	Value
Modes and Settings	Driver version: 1.04.1.23715
Media / Quality Settings	Default / Default
Simplex (B&W) settings	Print in grayscale, black ink only
Duplex (B&W) settings	Print in grayscale, black ink only
Settings by test count	Application
Collating function	Enabled in Application
Paper Path	Paper sending direction: Default
Paper size setting	Default
Paper feeding	Standard cassette
Paper exit	Standard exit tray
Output orientation	Default (face up), portrait
Duplicating ADF Unit	No
Duplicating Print Unit	Yes
Paper Manufacturer	Print HP Copy HP
Weight	Print 80gsm Copy 80gsm
Size	Print A4 Copy A4
Paper type/name	Print HP Everyday Paper Colorok Copy HP Everyday Paper Colorok

Summary Reports

ISO/IEC 24734	FSOT (seconds)	ESAT (lpm)
Color	18	18
Two Sided	37	8
B&W	22	22
Two Sided	27	14

Notes: 1) lpm = Images Per Minute and is equivalent to ppm or 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	FCOT (seconds)	sESAT (lpm)
Color	N/A	N/A
B&W	N/A	N/A

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

ISO/IEC 17629	FPOT From Ready (sec)
Color	13
B&W	12

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

Full Reports

ISO/IEC 24734	Office Category	FCOT (sec)	eFTP (lpm)				sESAT (lpm)
			1 Set	1 Set+ 30 seconds	1 Set+ 4 Minutes	1 Set+ 4 Minutes	
Color	Single Sided	PDF	27.00	9.00	12.00	14.00	15.20
		Word	19.00	-	-	-	24.50
		Excel	23.00	-	-	-	15.50
	Two Sided	Average	24	-	-	-	18
		PDF	41.00	5.00	7.00	-	8.00
		Word	33.00	-	-	-	9.30
B&W	Single Sided	Excel	35.00	-	-	-	8.40
		Average	37	-	-	-	8
		PDF	22.00	11.00	17.00	18.00	21.80
	Two Sided	Word	18.00	-	-	-	26.00
		Excel	18.00	-	-	-	20.80
		Average	20	-	-	-	22
Two Sided	PDF	30.00	8.00	11.00	-	14.00	
	Word	24.00	-	-	-	15.90	
	Excel	26.00	-	-	-	13.40	
		Average	27	-	-	14	

Notes: 1) lpm = Images Per Minute and is equivalent to ppm or 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	Page #	FCOT (sec)	eFTP (lpm)				sESAT (lpm)
			1 Copy	1 Copy + 30 seconds	1 Copy + 4 Minutes	1 Copy + 4 Minutes	
Color	Page 1	N/A	N/A	N/A	N/A	N/A	
	Page 2	N/A	N/A	N/A	N/A	N/A	
	Page 3	N/A	N/A	N/A	N/A	N/A	
	Page 4	N/A	N/A	N/A	N/A	N/A	
	Average	N/A	N/A	N/A	N/A	N/A	
Black	Page 1	N/A	N/A	N/A	N/A	N/A	
	Page 2	N/A	N/A	N/A	N/A	N/A	
	Page 3	N/A	N/A	N/A	N/A	N/A	
	Page 4	N/A	N/A	N/A	N/A	N/A	
	Average	N/A	N/A	N/A	N/A	N/A	

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

ISO/IEC 17629	FPOT From Ready (sec)	FPOT from Sleep (sec)	Recovery Time (sec)	
Color Simplex	PDF	13.10	21.10	8.00
	Word	11.80	-	-
	Excel	11.20	-	-
	Average	13.00	-	-
B&W Simplex	PDF	11.50	19.50	8.00
	Word	11.80	-	-
	Excel	9.80	-	-
	Average	12.00	-	-
		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 10 Notebook
	Processor	Intel Core i5-4210U 1.70GHz
	System Chip Set	Intel Chipset
	System Board	Q26A
	System Memory	8GB 1600MHz DDR3L
	Hard drive subsystem	Intel PRO1000 4G Network
	Video subsystem	Intel HD graphics
	Optical Drive	HP DVD-RW GJ830N
	HD subsystem	8GB L4
	USB subsystem	USB 2.0/3.0
IO	USB 2.0	
Software	Operating System	Microsoft Windows 10 Enterprise
	Printing Applications	Microsoft Office Word 2016 MSO 64-bit
		Microsoft Office Excel 2016 64-bit
		Adobe Acrobat Reader DC Version 2016.009.20044
Test Files and location	Office Category files, hard drive	

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 Pro 9110b (Blue Angel) series

Printing device and test settings		
Test Start Date and Time	07/11/23	12:00:00 AM
Tester	Mizan	
Machine product number	E4023B	
Machine name/model	HP OfficeJet Pro 9110b	
FW Version	8.15.1.5	
Colour or B&W	Color	
Temperature and humidity	23deg, 64%	
Volume	2201 Pgs	
Test End Date and Time	07/11/23	12:00:00 AM

Item	Value
Modes and Settings	Driver version: 1.04.1.2375
Media / Quality Settings	Default / Default
Simplex (B&W) settings	Print in grayscale, black ink only
Duplex (B&W) settings	Print in grayscale, black ink only
Settings by test count	Application
Collating function	Enabled in Application
Paper Path	Paper sensing direction: Default
Paper size settings	Default
Paper feeding	Standard cassette
Paper exit	Standard exit tray
Output orientation	Default (face up), portrait
Duplicating ADF Unit	No
Duplicating Print Unit	Yes
Paper Manufacturer	Print HP Copy HP
Weight	Print 80gsm Copy 80gsm
Size	Print A4 Copy A4
Paper type/name	Print HP Everyday Paper Colorok Copy HP Everyday Paper Colorok

Summary Reports

ISO/IEC 24734	FSOT (seconds)	ESAT (lpm)
Color	25	16
Two Sided	37	8
B&W	22	20
Two Sided	29	13

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

#DIB ISO/IEC 29183	FCOT (seconds)	sESAT (lpm)
Color	N/A	N/A
B&W	N/A	N/A

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

ISO/IEC 17629	FPOT From Ready (sec)
Color	13
B&W	12

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

Full Reports

ISO/IEC 24734	Office Category	FSOT (sec)	EFTP (ppm)				sESAT (lpm)
			1 Set	1 Set+ 30 seconds	1 Set+ 4 Minutes	1 Set+ 4 Minutes	
Color	Single Sided	PDF	28.00	8.00	11.00	13.00	14.30
		Word	20.00	-	-	-	22.70
		Excel	24.00	-	-	-	14.50
	Two Sided	Average	28	5.00	7.00	-	16
		PDF	41.00	5.00	7.00	-	7.90
		Word	34.00	-	-	-	9.30
B&W	Single Sided	Excel	35.00	-	-	-	8.40
		Average	37	-	-	-	8
		PDF	24.00	10.00	18.00	18.00	19.90
	Two Sided	Word	19.00	-	-	-	22.80
		Excel	20.00	-	-	-	19.10
		Average	22	7.00	10.00	-	20
B&W	Single Sided	PDF	31.00	7.00	10.00	-	13.40
		Word	27.00	-	-	-	14.90
		Excel	26.00	-	-	-	13.10
	Two Sided	Average	29	-	-	-	13

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

#DIB ISO/IEC 29183	FCOT (sec)	sEFTP (ppm)			sESAT (lpm)
		1 Copy	1 Copy + 30 seconds	1 Copy + 4 Minutes	
Color	Page 1 (# copies)	N/A	N/A	N/A	N/A
	Page 2 (# copies)	N/A	N/A	N/A	N/A
	Page 3 (# copies)	N/A	N/A	N/A	N/A
	Page 4 (# copies)	N/A	N/A	N/A	N/A
	Average (# copies)	N/A	N/A	N/A	N/A
Black	Page 1 (# copies)	N/A	N/A	N/A	N/A
	Page 2 (# copies)	N/A	N/A	N/A	N/A
	Page 3 (# copies)	N/A	N/A	N/A	N/A
	Page 4 (# copies)	N/A	N/A	N/A	N/A
	Average (# copies)	N/A	N/A	N/A	N/A

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

ISO/IEC 17629	FPOT from Ready (sec)	FPOT from Sleep (sec)	Recovery Time (sec)	
Color Simplex	PDF	13.40	21.40	8.00
	Word	11.80	-	-
	Excel	11.30	-	-
	Average	13.00	-	-
B&W Simplex	PDF	11.50	19.50	8.00
	Word	11.80	-	-
	Excel	9.80	-	-
	Average	12.00	-	-

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
Computer	HP 10 Notebook
Processor	Intel Core i5-4210U 1.70GHz
System Chip Set	Intel Chipset
System Board	Q26A
System Memory	8GB 1600MHz DDR3L
Hard drive subsystem	Intel PRO1000 #4 network
Video subsystem	Intel HD graphics
Optical Drive	HP DVD-RW GJ400N
HD subsystem	8GB L4
USB subsystem	USB 2.0/3.0
IO	USB 2.0
Software	Microsoft Windows 10 Enterprise
Printing Applications	Microsoft Office Word 2016 MSO 64-bit
	Microsoft Office Excel 2016 64-bit
	Adobe Acrobat Reader DC Version 2016.009.20044
Test Files and location	Office Category files, hard drive