

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 DeskJet 4220 All in One series

Printing device and test settings	
Test Start Date and Time	07/27/23 12:00:00 AM
Tester	Aysha Vaughan
Machine product number	588PRA
Machine name/model	HP DeskJet 4220 All in One
FW Version	FPF1CN000x (V1.1 Candidate)
Colour or B&W	Color
Temperature and humidity	22 °C and 62%
Voltage	120 volts AC
Test End Date and Time	08/02/23 12:00:00 AM

Modes and Settings	Item	Value
Settings	Driver version	58.0.1302
	Media / Quality Setting	Plain Normal
	Simplex B&W settings	Black Ink Only
	Duplex B&W settings	Black Ink Only
Paper Path	Setting N set count	Application
	Collation function	Collation On
	Paper sending direction	Default
	Paper size setting	Default
Paper	Paper feeding	Standard cassette
	Paper exit	Standard exit tray
	Output orientation	Face up, Portrait
	Duplexing ADF Unit	No
	Duplexing Print Unit	No
	Paper Manufacturer	Print: HP Copy: HP
Weight	Print: 80 gsm Copy: 80 gsm	
Size	Print: A4 Copy: A4	
Paper type/name	Print: HP Office Copy: 80 gsm	

Summary Reports		
ISO/IEC 24734	FSOT (seconds)	sESAT (gpm)
Color	Single Sided	34
	Two Sided	N/A
B&W	Single Sided	34
	Two Sided	N/A

Notes: 1) gpm = Images Per Minute and is equivalent to ppm or Pages Per Minute
 2) For Simplex B&W results, Black Ink Only
 3) For Duplex B&W results, Black Ink Only

FDIS ISO/IEC 29183		
Color	FCOT (seconds)	sESAT (gpm)
B&W	15	6

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

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

Notes: 1) For B&W results, Black Ink Only

Full Reports						
ISO/IEC 24734		Office Category	FSOT (sec)	EFTP (gpm)		sESAT (gpm)
Color	Single Sided	PDF (# sets)	61.00	3.00	1	4.00
		Word (# sets)	34.00	1	2	4.00
B&W	Single Sided	Excel (# sets)	65.00	N/A	N/A	4.00
		Average	34	N/A	N/A	5.5
Color	Two Sided	PDF (# sets)	N/A	N/A	N/A	N/A
		Word (# sets)	N/A	N/A	N/A	N/A
B&W	Two Sided	Excel (# sets)	N/A	N/A	N/A	N/A
		Average	N/A	N/A	N/A	N/A

Notes: 1) gpm = Images Per Minute and is equivalent to ppm or Pages Per Minute
 2) For Simplex B&W results, Black Ink Only
 3) For Duplex B&W results, Black Ink Only

FDIS ISO/IEC 29183						
Color	Page 1 (# copies)	FCOT (sec)	eEFTP (gpm)			sESAT (gpm)
			1 Copy	1 Copy + 30 seconds	1 Copy + 4 Minutes	
Color	Page 2 (# copies)	25.10	2.00	1	3	3.00
	Page 3 (# copies)	19.70	3.00	1	3	4.20
	Page 4 (# copies)	24.60	2.00	1	3	3.10
	Average (# copies)	26.70	2.00	1	3	2.70
Black	Page 1 (# copies)	15.20	3.00	2	3	5.70
	Page 2 (# copies)	12.70	4.00	7.00	5	7.50
	Page 3 (# copies)	13.80	4.00	6.00	6	6.90
	Page 4 (# copies)	17.00	3.00	4.00	4	4.80
Average (# copies)		15	3	6	6	6

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

ISO/IEC 17629				
Color Simplex	PDP	FPOT from Ready (sec)	FPOT from Sleep (sec)	Recovery Time (sec)
		Word	17.00	20.00
B&W Simplex	Excel	17.20	15.00	2.00
	Average	16.80	120 min	2.00
	Delay Time	50 sec	120 min	
	PDP	13.00	15.00	
B&W Simplex	Word	13.00	15.00	
	Excel	11.50	15.00	
	Average	13.00	120 min	
	Delay Time	50 sec	120 min	

Notes: 1) For B&W results, Black Ink Only
 2) FPOT from Sleep Average + FPOT from Ready Average + Recovery Time

Test system parameters		Item	Value
Test System	Computer	HP Elite 85 G7 Notebook	
	Processor	Intel Core i5-4210U 1.70GHz	
	System Chip Set	Intel C3100	
	System Board	725A	
	System Memory	8GB 1600MHz DDR3L	
	Hard Drive subsystem	HGST 750GB of storage	
	Video subsystem	Intel HD graphics	
	Optical Drive	HP DVDRW GU80N	
	UD subsystem	Blackix	
	USB subsystem	USB 2.0/3.0	
OS	Printer Connection	USB 2.0	
	Operating System	Microsoft Windows 10 Enterprise	
Software	Printing Applications	Microsoft Office Word 2016 MSD 64-bit	
		Microsoft Office Excel 2016 64-bit	
	Test Files and location	Adobe Acrobat Reader DC Version 2018.009.20044 Office Category files, hard drive	