

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - LETTER

HP Color LaserJet Enterprise Flow MFP M578Z

Printing device and settings		
Test Start Date and Time	12/1/2020 17:12	
Tester	RM	
Machine name/model	HP Color LaserJet Enterprise Flow MFP M578Z	
Colour or B&W	Colour	
PW Version	2411097_060474	
Temperature and Humidity	73 degF / 23 degC 16%RH	
Voltage	110V	
Test End Date and Time	1/7/2021 16:12	

Mode and Setting	Value	
	Item	Value
Mode and Setting	Driver Version	7.0.0.24686
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	Print in Grayscale
	Duplex B&W Settings	Print in Grayscale
	Setting N set count	Application
Paper Path	Collating function	Activated (application)
	Paper Sending Direction	Default
	Paper Size Setting	Default
	Paper Feeding Tray	Tray 2
	Paper Exit	Standard Exit Tray
Paper	Output Orientation	Default (face down)
	Duplexing Unit (Yes/No)	YES
	Paper Manufacturer	HP/Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
Paper	Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: Letter			
Office Category Test for Color Device		FSOT (seconds)	ESAT (ipm)
Color	Simplex	12.93	40.23
	Duplex	15.33	41.00
B&W	Simplex	11.73	40.23
	Duplex	14.47	40.99

Notes:
1) All printing device and driver settings were default mode.
2) For the B&W results, the print driver was set to "print in B&W".
3) For more information see <http://www.hp.com/go/printerclaims>.
4) Port monitor not configured to follow device if the IP address changes.

Detailed Report: LETTER						
	Office Category Test	FSOT (secs)	EFTP (ipm)		ESAT (ipm)	
		1 set only (1 set)	1 set only (1 set)	1 set + 30sec (# of sets)	1 set + 4min (# of sets)	1 set + 30sec
Color Mode	Simplex - Adobe Reader	14.19	16.91 (1 set)	33.89 (7 sets)	37.40 (42 sets)	40.24
			19.18 (1 set)	34.92 (7 sets)		40.24
	Simplex - Word	12.51	19.18 (1 set)	34.92 (7 sets)		40.24
			19.86 (1 set)	35.11 (7 sets)		40.23
	Simplex - Excel	12.08	19.86 (1 set)	35.11 (7 sets)		40.23
			12.08 (1 set)	34.64 (7 sets)	37.40	40.23
	Simplex - Average	12.93	18.65 (1 set)	34.64 (7 sets)	37.40	40.23
			16.62 (1 set)	31.96 (7 sets)		40.98
	Duplex - Adobe Reader	16.62	16.18 (1 set)	32.76 (7 sets)		41.02
		14.83	16.50 (1 set)	33.38 (7 sets)		41.02
B&W mode (optional for color device)	Simplex - Adobe Reader	14.54	16.50 (1 set)	33.38 (7 sets)		41.00
			15.33 (1 set)	32.70 (7 sets)		41.00
	Simplex - Word	15.33	15.70 (1 set)	32.70 (7 sets)		41.00
			12.99 (1 set)	34.51 (7 sets)	38.24 (42 sets)	40.23
	Simplex - Excel	12.99	18.48 (1 set)	34.51 (7 sets)	38.24 (42 sets)	40.23
			11.15 (1 set)	21.52 (7 sets)	35.63 (7 sets)	40.23
	Simplex - Average	11.15	21.52 (1 set)	35.63 (7 sets)	35.80 (7 sets)	40.23
			11.04 (1 set)	21.74 (7 sets)	35.31 (7 sets)	40.23
	Duplex - Adobe Reader	11.73	20.58 (1 set)	35.31 (7 sets)	38.2 (7 sets)	40.23
			15.23 (1 set)	31.90 (7 sets)		41.00
	Duplex - Word	15.23	16.76 (1 set)	33.58 (7 sets)		41.00
		14.30	17.30 (1 set)	33.52 (7 sets)		40.98
	Duplex - Excel	13.86	17.30 (1 set)	33.52 (7 sets)		40.98
			14.47 (1 set)	33.00 (7 sets)		40.99

Notes:
1) All printing device and driver settings were default mode.
2) For the B&W results, the print driver was set to "print in B&W".
3) For more information see <http://www.hp.com/go/printerclaims>.
4) Port monitor not configured to follow device if the IP address changes.

Test System Parameters	
Item	Value
Computer	HP Z240 SFF Workstation
Processor	Intel Core i7-6770 3.4 GHz
System Chip Set	Intel SKL/KBL Mobile/Desktop
System Board	system devices, default system BIOS
System Memory	8 GB
Hard Drive Subsystem	Turbo Drive G2 256GB PCIe SSD
Video Subsystem	Microsoft Basic Display Adaptor
Optical Drive	HP HLDS DVDRW GUD1N
I/O Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
TCP/IP	TCP/IP 10/1000
Operating System	Win 10 Enterprise 64 Bit (1909)
Printing Applications	Microsoft Office Word 2019
	Microsoft Office Excel 2019
Print Driver	Not Specified
Test files and location	Office category files, hard drive

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - A4

HP Color LaserJet Enterprise Flow MFP M578Z

Printing device and settings		
Test Start Date and Time	12/1/2020 17:12	
Tester	RM	
Machine name/model	HP Color LaserJet Enterprise Flow MFP M578Z	
Colour or B&W	Colour	
PW Version	2411097_060474	
Temperature and Humidity	73 degF / 23 degC 16%RH	
Voltage	110V	
Test End Date and Time	1/7/2021 16:12	

	Item	Value
Mode and Setting	Driver Version	7.0.0.24686
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	Print in Grayscale
	Duplex B&W Settings	Print in Grayscale
	Setting N set count	Application
	Collating function	Activated (application)
	Paper Sending Direction	Default
Paper Path	Paper Size Setting	Default
	Paper Feeding Tray	Tray 2
	Paper Exit	Standard Exit Tray
	Output Orientation	Default (face down)
	Duplexing Unit (Yes/No)	YES
Paper	Paper Manufacturer	HP/Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: A4			
Office Category Test for Color Device		FSOT (seconds)	ESAT (ipm)
Colour	Simplex	13.10	38.09
	Duplex	15.73	39.12
B&W	Simplex	11.91	38.08
	Duplex	14.40	39.12

- Notes
- 1) All printing device and driver settings were default mode.
 - 2) For the B&W results, the print driver was set to "print in B&W".
 - 3) For more information see <http://www.hp.com/go/printerclaims>.
 - 4) Port monitor not configured to follow device if the IP address changes.

Detailed Report: A4						
	Office Category Test	FSOT (secs)	EFTP (ipm)		ESAT (ipm)	
		1 set only (1 set)	1 set only (1 set)	1 set + 30sec (# of sets)	1 set + 4min (# of sets)	1 set + 30sec
Colour Mode	Simplex - Adobe Reader	14.50	16.57	31.19	35.26	38.09
			(1 set)	(6 sets)	(40 sets)	
	Simplex - Word	12.40	19.35	32.41		38.09
			(1 set)	(6 sets)		
	Simplex - Excel	12.38	19.39	32.74		38.09
			(1 set)	(6 sets)		
	Simplex - Average	13.10	18.43	32.11	35.26	38.09
	Duplex - Adobe Reader	17.00	14.10	29.44		39.12
			(1 set)	(6 sets)		
B&W mode (optional for color device)	Simplex - Adobe Reader	12.97	18.50	32.27	36.25	38.09
			(1 set)	(6 sets)	(40 sets)	
	Simplex - Word	11.45	20.96	33.22		38.08
			(1 set)	(6 sets)		
	Simplex - Excel	11.29	21.25	33.65		38.08
			(1 set)	(6 sets)		
	Simplex - Average	11.9	20.23	33.04	36.3	38.08
	Duplex - Adobe Reader	15.55	15.42	30.14		39.12
			(1 set)	(6 sets)		
	Duplex - Word	13.93	17.22	31.64		39.12
			(1 set)	(6 sets)		
	Duplex - Excel	13.71	17.50	31.70		39.12
			(1 set)	(6 sets)		
	Duplex - Average	14.4	16.71	31.16		39.12

- Notes
- 1) All printing device and driver settings were default mode.
 - 2) For the B&W results, the print driver was set to "print in B&W".
 - 3) For more information see <http://www.hp.com/go/printerclaims>.
 - 4) Port monitor not configured to follow device if the IP address changes.

Test System Parameters	
Item	Value
Computer	HP Z240 SFF Workstation
Processor	Intel Core i7-6770, 3.4 GHz
System Chip Set	Intel SKL/KBL Mobile/Desktop
System Board	system devices, default system BIOS
System Memory	8 GB
Hard Drive Subsystem	Turbo Drive G2 256GB PCIe SSD
Video Subsystem	Microsoft Basic Display Adaptor
Optical Drive	HP HLDS DVDRW GUD1N
I/O Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
TCP/IP	
TCP/IP 10/100	
Operating System	Win 10 Enterprise 64 Bit (1909)
Printing Applications	Microsoft Office Word 2019
	Acrobat Reader DC
Print Driver	Microsoft Office Excel 2019
	Not Specified
Test files and location	Office category files, hard drive

ISO/IEC 24734 Printing Productivity Report: Office Category

Feature Performance Full Report - Office Feature Performance Test
HP Color LaserJet Enterprise Flow MFP M578Z

Printing device and settings	
Test Start Date and Time	12/1/2020 17:12
Tester	RM
Machine name/model	HP Color LaserJet Enterprise Flow MFP M578Z
Colour or B&W	Colour
PW Version	2411097_060474
Temperature and Humidity	73 degF / 23 degC 16%RH
Voltage	110V
Test End Date and Time	1/7/2021 16:12

Mode and Setting	Item	Value
	Driver Version	7.0.0.24686
Mode and Setting	Media/Quality Setting	Default / Default
	Simplex B&W Settings	Print in Grayscale
	Duplex B&W Settings	Print in Grayscale
	Setting N set count	Application
Paper Path	Collating function	Activated (application)
	Paper Sending Direction	Default
	Paper Size Setting	Default
	Paper Feeding Tray	Tray 2
	Paper Exit	Standard Exit Tray
Paper	Output Orientation	Default (face down)
	Duplexing Unit (Yes/No)	YES
	Paper Manufacturer	HP/Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

ISO Print Productivity Report: Feature Performance Test Summary				
Printing Modes (Feature Adobe Reader - Office test file)		Feature Performance Ratio		
		FSOT (base) FSOT (feature)	ESAT (feature) ESAT (base)	
A5, Landscape Feed, Simplex, Colour	Simplex	129%	157%	
A5, Portrait Feed, Simplex, Colour	Simplex	95%	52%	
Legal, Simplex, Colour	Simplex			
Legal, Duplex, Colour	Duplex			
A4, 1200 dpi, Simplex, Colour	Simplex			
Letter, 1200 dpi, Simplex, Colour	Simplex			
A4, HP High Speed, Simplex, Colour	Simplex			
Letter, HP High Speed, Simplex, Colour	Simplex			
A4, General Office, Simplex, Colour	Simplex			
Letter, General Office, Simplex, Colour	Simplex			
A5, Landscape Feed, Simplex, B/W	Simplex	126%	157%	
A5, Portrait Feed, Simplex, B/W	Simplex	97%	53%	
Legal, Simplex, B/W	Simplex			
Legal, Duplex, B/W	Duplex			
A4, 1200 dpi, Simplex, B/W	Simplex			
Letter, 1200 dpi, Simplex, B/W	Simplex			
A4, HP High Speed, Simplex, B/W	Simplex			
Letter, HP High Speed, Simplex, B/W	Simplex			
A4, General Office, Simplex, B/W	Simplex			
Letter, General Office, Simplex, B/W	Simplex			

Notes:
1) All printing device and driver settings were default mode.
2) Test conducted with 8-paper Office Feature Performance file.
3) For more information see <http://www.hp.com/go/printerclaims>.
4) Port monitor not configured to follow device if the IP address changes.

Feature Performance Full Report - Feature Printing Mode: 'Office' Feature Performance Test						
Printing Modes Feature Adobe Reader - Office test file (8-page)	Base Printing Mode		Feature Performance			
	FSOT Base	ESAT Base	1 set FSOT (secs)	1 set + 30 sec ESAT (ipm)	FSOT (base) FSOT (feature)	ESAT (feature) ESAT (base)
A5, Landscape Feed, Simplex, Colour	20.63	38.08	16.09	59.8	129%	157%
A5, Portrait Feed, Simplex, Colour	20.63	38.08	21.75	19.8	95%	52%
Legal, Simplex, Colour						
Legal, Duplex, Colour						
A4, 1200 dpi, Simplex, Colour	20.63	38.08				
Letter, 1200 dpi, Simplex, Colour						
A4, HP High Speed, Simplex, Colour	20.63	38.08				
Letter, HP High Speed, Simplex, Colour						
A4, General Office, Simplex, Colour	20.63	38.08				
Letter, General Office, Simplex, Colour						
A5, Landscape Feed, Simplex, B/W	19.8	38.08	15.74	59.8	126%	157%
A5, Portrait Feed, Simplex, B/W	19.8	38.08	20.59	20.4	97%	53%
Legal, Simplex, B/W						
Legal, Duplex, B/W						
A4, 1200 dpi, Simplex, B/W	19.8	38.08				
Letter, 1200 dpi, Simplex, B/W						
A4, HP High Speed, Simplex, B/W	19.8	38.08				
Letter, HP High Speed, Simplex, B/W						
A4, General Office, Simplex, B/W	19.8	38.08				
Letter, General Office, Simplex, B/W						

Notes:
1) All printing device and driver settings were default mode.
2) Test conducted with 8-paper Office Feature Performance file.
3) For more information see <http://www.hp.com/go/printerclaims>.
4) Port monitor not configured to follow device if the IP address changes.

Test System Parameters	
Item	Value
Test System	Computer HP Z240 SFF Workstation
	Processor Intel Core i7 -6770, 3.4 GHz
	System Chip Set Intel SKL/KBL Mobile/Desktop
	System Board system devices, default system BIOS
	System Memory 8 GB
	Hard Drive Subsystem Turbo Drive G2 256GB PCIe SSD
	Video Subsystem Microsoft Basic Display Adaptor
	Optical Drive HP HLDS DVD RW GUD1N
	I/O Subsystem Built-in
	USB Subsystem USB 2.0/3.0
IO	TCPI/F TCP/IP 10/100
Software	Operating System Win 10 Enterprise 64 Bit (1909)
	Printing Applications Microsoft Office Word 2019
	Printing Applications Acrobat Reader DC
	Print Driver Microsoft Office Excel 2019
	Test files and location Not Specified Office category files, hard drive

ISO/IEC 17629 First Print Out Time Report: Office Category

Full Detailed Test Report - LETTER

HP Color LaserJet Enterprise Flow MFP M578Z

Printing device and settings	
Test Start Date and Time	12/1/2020 14:06
Tester	RM
Machine name/model	HP Color LaserJet Enterprise Flow MFP M578Z
Colour or B&W	Colour
FW Version	2411097_060474
Configuration (options)	Default
Controller	7.102
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	73 degF / 23 degC 16%rH
Voltage	110V
Test End Date and Time	12/17/2020 15:11

Item	Value
Mode and Setting	PDL and driver version
	7.0.0.24686
	Print Quality mode
	default
Paper	B&W settings
	default
	Paper feed orientation
	Short Edge
Paper Path	Paper type setting
	default
	Paper feeding
Paper Path	Standard cassette
	Paper exit
Paper Path	Standard exit tray
	default (face up or face down)

ISO First Page Out Time Summary Report: Office Category

Summary Report: LETTER	
FPOT from Ready (seconds)	
Color	Simplex
	7.83
B&W	Duplex
	6.66

Notes

- 1) All printing device and driver settings were default mode.
- 2) For the B/W results, the print driver was set to "print in B/W".
- 3) For more information see <http://www.hp.com/go/printerclaims>.
- 4) Port monitor not configured to follow device if the IP address changes.
- 5) Page counts were collected after completion of the tests.

ISO First Page Out Time Report: Office Category

Detailed Report: LETTER		Word (seconds)	Excel (seconds)	Adobe Reader (seconds)	Average (seconds)	Delay Time
Color Mode	FPOT from Ready - Simplex	7.69	7.46	8.32	7.83	20 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			12.90		96 Minutes
	Recovery Time			4.6		
	FPOT from Off - Simplex			200.17		
	Warm-up Time			191.85		
B&W Mode	FPOT from Ready - Simplex	6.61	6.41	6.94	6.66	20 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			13.05		96 Minutes
	Recovery Time			6.1		
	FPOT from Off - Simplex			197.33		
	Warm-up Time			190.39		

Notes

- 1) All printing device and driver settings were default mode.
- 2) For the B/W results, the print driver was set to "print in B/W".
- 3) For more information see <http://www.hp.com/go/printerclaims>.
- 4) Port monitor not configured to follow device if the IP address changes.
- 5) Page counts were collected after completion of the tests.
- 6) Details for FPOT from Sleep are shown below.

HP Data Table

Detailed Report: LETTER		FPOT Avg (secs)	FPOT (secs) Iteration 1	FPOT (secs) Iteration 2	FPOT (secs) Iteration 3	Application	Delay Time
Color Mode	FPOT from Sleep	12.90	12.88	12.92	N/A	Adobe Reader	96 Minutes
	FPOT from Sleep (15 minutes) HP/Non ISO Test	11.05	10.96	11.14	N/A	Adobe Reader	15 Minutes
	FPOT from Ready, HP High Speed HP/Non ISO Test	N/A	N/A	N/A	N/A	Adobe Reader	N/A
	FPOT from Sleep	13.05	13.56	12.53	N/A	Adobe Reader	96 Minutes
B&W Mode	FPOT from Sleep (15 minutes) HP/Non ISO Test	10.99	11.20	10.77	N/A	Adobe Reader	15 Minutes

Test System Parameters	
Item	Value
Test System	Computer
	HP Z240 SFF Workstation
	Processor
	Intel Core i7-6770, 3.4 GHz
	System Chip Set
	Intel SKL/KBL Mobile/Desktop
	System Board
	system devices, default system BIOS
	System Memory
	8 GB
Printing Device Connection	Hard Drive Subsystem
	Turbo Drive G2 256GB PCIe SSD
	Video Subsystem
	Microsoft Basic Display Adaptor
	Optical Drive
Software	HP HLDS DVD RW GUD1N
	I/O Subsystem
	Built-in
Software	USB Subsystem
	USB 2.0/3.0
Printing Device Connection	TCP/IP
	10/1000
Software	Operating System
	Win 10 Enterprise 64 Bit (1909)
	Printing Applications
	Microsoft Office 2019
Software	Adobe Reader DC
	Print Driver
	7.0.0.24686

ISO/IEC 17629 First Print Out Time Report: Office Category

Full Detailed Test Report - A4

HP Color LaserJet Enterprise Flow MFP M578Z

Printing device and settings	
Test Start Date and Time	12/1/2020 14:06
Tester	RM
Machine name/model	HP Color LaserJet Enterprise Flow MFP M578Z
Colour or B&W	Colour
FW Version	2411097_060474
Configuration (options)	Default
Controller	7.102
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	73 degF / 23 degC 16%rh
Voltage	110V
Test End Date and Time	12/17/2020 15:11

Mode and Setting	Item	Value
Mode and Setting	PDL and driver version	7.0.0.24686
	Print Quality mode	default
	B&W settings	default
	Paper feed orientation	Short Edge
Paper	Paper type setting	default
	Paper feeding	Standard cassette
	Paper exit	Standard exit tray
Paper Path	Output orientation	default (face up or face down)

ISO First Page Out Time Summary Report: Office Category

Summary Report: A4		FPOT from Ready (seconds)
Colour	Simplex	7.89
	Duplex	
B&W	Simplex	6.68
	Duplex	

Notes

- 1) All printing device and driver settings were default mode.
- 2) For the B/W results, the print driver was set to "print in B/W".
- 3) For more information see <http://www.hp.com/go/printerclaims>.
- 4) Port monitor not configured to follow device if the IP address changes.
- 5) Page counts were collected after completion of the tests.

ISO First Page Out Time Report: Office Category						
Detailed Report: A4						
		Word (seconds)	Excel (seconds)	Adobe Reader (seconds)	Average (seconds)	Delay Time
Color Mode	FPOT from Ready - Simplex	7.92	7.41	8.32	7.89	20 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			13.37		96 Minutes
	Recovery Time			5.0		
	FPOT from Off - Simplex			203.38		
	Warm-up Time			195.06		
B&W Mode	FPOT from Ready - Simplex	6.61	6.36	7.07	6.68	20 Seconds
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex			13.11		96 Minutes
	Recovery Time			6.0		
	FPOT from Off - Simplex			200.65		
	Warm-up Time			193.58		
Notes						
1) All printing device and driver settings were default mode.						
2) For the B/W results, the print driver was set to "print in B/W".						
3) For more information see http://www.hp.com/go/printerclaims .						
4) Port monitor not configured to follow device if the IP address changes.						
5) Page counts were collected after completion of the tests.						
6) Details for FPOT from Sleep are shown below.						

HP Data Table							
Detailed Report: A4							
		FPOT Avg (secs)	FPOT (secs) Iteration 1	FPOT (secs) Iteration 2	FPOT (secs) Iteration 3	Application	Delay Time
Color Mode	FPOT from Sleep	13.37	13.18	13.55	N/A	Adobe Reader	96 Minutes
	FPOT from Sleep (15 minutes) HP/Non ISO Test	11.24	11.50	10.97	N/A	Adobe Reader	15 Minutes
	FPOT from Ready, HP High Speed HP/Non ISO Test	N/A	N/A	N/A	N/A	Adobe Reader	N/A
	FPOT from Sleep	13.11	13.61	12.61	N/A	Adobe Reader	96 Minutes
B&W Mode	FPOT from Sleep (15 minutes) HP/Non ISO Test	11.33	11.19	11.47	N/A	Adobe Reader	15 Minutes

		Test System Parameters	
		Item	Value
Test System		Computer	HP Z240 SFF Workstation
		Processor	Intel Core i7-6770, 3.4 GHz
		System Chip Set	Intel SKL/KBL Mobile/Desktop
		System Board	system devices, default system BIOS
		System Memory	8 GB
		Hard Drive Subsystem	Turbo Drive G2 256GB PCIe SSD
		Video Subsystem	Microsoft Basic Display Adaptor
		Optical Drive	HP HLDS DVD/BD RW GUD1N
		I/O Subsystem	Built-in
	USB Subsystem	USB 2.0/3.0	
Printing Device Connection		TCP/IP	10/1000
Software		Operating System	Win 10 Enterprise 64 Bit (1909)
		Printing Applications	Microsoft Office 2019
		Adobe Reader	DC
		Print Driver	7.0.0.24686

Full Detailed Test Report - LETTER

Machine Setup Information

Paper	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

Detailed Report: LETTER						
	Target	sFCOT (secs)	sEFTP (ipm)			sESAT (ipm)
			1copy	1copy+30sec	1copy+4minutes	
				32.54	37.31	
Color	A	8.65	6.93	22 sets	162 sets	40.24
	B					
	C					
	D					
	Average	8.65	6.93	32.54	37.31	40.24
	B&W	A	5.36	11.20	35.45	38.63
B				22 sets	162 sets	
C						
D						
Average		5.36	11.20	35.45	38.63	40.23

Notes

First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information, see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration and document.

Only Target A was used, all test documents have the same Saturated throughput. Reference ISO/IEC29183:2010 Clause 5, Sections 5.3.1 and 5.3.2

Full Detailed Test Report - A4

HP Color LaserJet Enterprise Flow MFP M578Z

Paper	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: A4		
	sFCOT	sESAT (ipm)
Colour	9.00	38.09
B&W	5.66	38.07

Notes

First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information, see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration and document.

Only Target A was used, all test documents have the same Saturated throughput. Reference ISO/IEC 29183:2010 Clause 5. Sections 5.3.1 and 5.3.2

Detailed Report: A4						
	Target	sFCOT (secs)	sEFTP (ipm)			sESAT (ipm)
			1copy	1copy+30sec	1copy+4minutes	
Colour	A	9.00	6.66	31.35 22 sets	36.20 162 sets	38.09
	B					
	C					
	D					
	Average	9.00	6.66	31.35	36.20	38.09
	B&W	A	5.66	10.60	33.27 22 sets	34.83 162 sets
B						
C						
D						
Average		5.66	10.60	33.27	34.83	38.07

Notes

First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information, see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration and document.

Only Target A was used, all test documents have the same Saturated throughput. Reference ISO/IEC29183:2010 Clause 5, Sections 5.3.1 and 5.3.2

Full Detailed Test Report - LETTER

ISO/IEC 24735 Copy Productivity Report						
Detailed Report: LETTER						
	Copying Mode	FSOT (secs)	EFTP (ipm)			ESAT (ipm)
		1 set only	1 set only	1 set + 30sec	1 set + 4min	1 set + 30sec
Color Mode	1:1	13.32	18.04	33.11	37.75	40.23
			(1 set)	7 sets	42 sets	
	1:2	18.57	12.92	31.20	37.5	41.00
			(1 set)	7 sets	42 sets	
	2:2	16.94	14.16	31.58	37.54	41.00
			(1 set)	7 sets	42 sets	
B&W mode	1:1	13.40	17.90	34.63	38.34	40.21
				7 sets	42 sets	
	1:2	17.70	13.54	31.38	37.6	40.96
				7 sets	42 sets	
	2:2	16.16	14.84	31.86	37.7	40.98
				7 sets	42 sets	

Notes
Reports located: <http://www.hp.com/go/printerclaims>

Full Detailed Test Report - A4

ISO/IEC 24735 Copy Productivity Report						
Detailed Report: A4						
	Copying Mode	FSOT (secs)	EFTP (ipm)			ESAT (ipm)
		1 set only	1 set only	1 set + 30sec	1 set + 4min	1 set + 30sec
Colour Mode	1:1	14.24	16.85	31.42	36.18	38.09
			(1 set)	6 sets	40 sets	
	1:2	18.05	13.28	28.98	36.16	39.12
			(1 set)	6 sets	40 sets	
	2:2	17.39	13.80	29.24	35.5	39.12
			(1 set)	6 sets	40 sets	
B&W mode	1:1	14.08	17.04	31.89	36.19	38.08
				6 sets	40 sets	
	1:2	17.47	13.72	29.48	35.7	39.12
				6 sets	40 sets	
	2:2	16.57	14.48	29.72	35.68	39.12
				6 sets	40 sets	

Notes
 Reports located: <http://www.hp.com/go/printerclaims>

ISO/IEC 17991 Scanning Productivity Report

Full Detailed Test Report - LETTER

Machine Setup Information		
Test Start Date and Time	1/13/2021 15:21	
Tester	RM	
Machine name/model	HP Color LaserJet Enterprise Flow MFP M578Z	
Colour or B&W	Colour	
Configuration (options)	Default	
Temperature and Humidity	73 degF / 23 degC 16%rH	
Voltage	110V	
Test End Date and Time	1/14/2021 12:36	

Preset Item		Preset Value
Mode and Setting	Scanning resolution	default (200 dpi)
	Colour or grey scale/B&W	default (colour)
	Duplex / simplex	default (simplex)
	Original page size	default (A4)
	Paper feed orientation	default (long edge)
	Scan destination	default (shared network)
	Storing File Type	default (PDF-multi)
	Auto scan quality adjustment	default (factory preset default setting)
ADF Paper-path	Paper feed direction	default (long edge)
	Output orientation	default
	Scanning unit	default (duplex ADF)

ISO/IEC 17991 - Scan Summary Report: ADF Productivity Measurement

Summary Report: Letter

	Scanning Mode			Measurement result
	File format version	Resolution	Scanning side	scESAT 30secA (ipm)
Colour	PDF 1.4	150	single sided	48.16
			double sided	69.30
B&W	PDF 1.4	150	single sided	48.03
			double sided	74.56

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Summary Report: Network Folder Productivity Measurement

Summary Report: Letter

	Scanning Mode			Measurement result		
	File format version	Resolution	Scanning side	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)
Colour	PDF 1.4	150	single sided	32.53	4.53	8.00
			double sided	41.64	5.69	10.00
B&W	PDF 1.4	150	single sided	35.41	0.87	8.00
			double sided	52.00	1.21	11.00

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Full Report: ADF Productivity Measurement

Summary Report: Letter

	Scanning Mode			Measurement result		
	File format version	Resolution	Scanning side	scEFTP 1setA (ipm)	scEFTP 30secA (ipm)	scESAT 30secA (ipm)
Colour	PDF 1.4	150	single sided	26.17	44.17	48.16
			double sided	33.96	61.85	69.3
B&W	PDF 1.4	150	single sided	25.81	43.9	48.03
			double sided	34.83	67.15	74.56

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Full Report: Network Folder Productivity Measurement

Summary Report: Letter

	Scanning Mode			Measurement result			
	File format version	Resolution	Scanning side	scEFTP 1setF (ipm)	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)
Colour	PDF 1.4	150	single sided	13.50	32.53	4.53	8
			double sided	14.61	41.64	5.69	10
B&W	PDF 1.4	150	single sided	13.47	35.41	0.87	8
			double sided	14.93	52.00	1.21	11

Notes

- 1) For more information see <http://www.hp.com/go/printerclaims>.
2) For the B/W results, the device scan setting is set to "Scan in B/W".

Test System Parameters		
Item		Value
System	Computer name	HP Z240 SFF Workstation
	Processor	Intel Core i7 -6770, 3.4 GHz
	System Chip Set	Intel SKL/KBL Mobile/Desktop
	System Board	system devices, default system BIOS
	System Memory	8 GB
	Hard Drive Subsystem	Turbo Drive G2 256GB PCIe SSD
	Video Subsystem	Microsoft Basic Display Adaptor
	Optical Drive	HP HLDS DVDRW GUD1N
	I/O Subsystem	Builtin
	USB Subsystem	USB 2.0/3.0
	Operating System	Win 10 Enterprise 64 Bit (10240)
Scanning Device Connection	Location of network folder	PC
	Internet Protocol	IPv4
	Transfer Protocol	SMB
	Hub	Trendnet Router and Gbit Switch
	Network Speed	TCP 10/1000 Mbit Ethernet
	Connection Cable	Cat6 Straight cable
	Wireless router	No use
	Others	No use

ISO/IEC 17991 Scanning Productivity Report

Full Detailed Test Report - A4

Machine Setup Information		
Test Start Date and Time	1/13/2021 15:21	
Tester	RM	
Machine name/model	HP Color LaserJet Enterprise Flow MFP M578Z	
Colour or B&W	Colour	
Configuration (options)	Default	
Temperature and Humidity	73 degF / 23 degC 16%rH	
Voltage	110V	
Test End Date and Time	1/14/2021 12:36	

Mode and Setting	Preset Item	Preset Value
	Scanning resolution	default (200 dpi)
	Colour or grey scale/B&W	default (colour)
	Duplex / simplex	default (simplex)
	Original page size	default (A4)
	Paper feed orientation	default (long edge)
	Scan destination	default (shared network)
	Storing File Type	default (PDF-multi)
	Auto scan quality adjustment	default (factory preset default setting)
	Paper feed direction	default (long edge)
ADF Paper-path	Output orientation	default
	Scanning unit	default (duplex ADF)

ISO/IEC 17991 - Scan Summary Report: ADF Productivity Measurement

Summary Report: A4

	Scanning Mode			Measurement result
	File format version	Resolution	Scanning side	scESAT 30secA (ipm)
Colour	PDF 1.4	150	single sided	45.96
			double sided	66.41
B&W	PDF 1.4	150	single sided	45.60
			double sided	71.36

Notes

1) For more information see <http://www.hp.com/go/printerclaims>.

2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Summary Report: Network Folder Productivity Measurement

Summary Report: A4

	Scanning Mode			Measurement result		
	File format version	Resolution	Scanning side	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)
Colour	PDF 1.4	150	single sided	31.06	3.78	7.00
			double sided	40.60	5.47	10.00
B&W	PDF 1.4	150	single sided	33.94	0.74	7.00
			double sided	49.19	1.06	10.00

Notes

1) For more information see <http://www.hp.com/go/printerclaims>.

2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Full Report: ADF Productivity Measurement

Summary Report: A4

	Scanning Mode			Measurement result		
	File format version	Resolution	Scanning side	scEFTP 1setA (ipm)	scEFTP 30secA (ipm)	scESAT 30secA (ipm)
Colour	PDF 1.4	150	single sided	28.75	42.21	45.96
			double sided	33.66	59.49	66.41
B&W	PDF 1.4	150	single sided	29.31	41.96	45.6
			double sided	32.71	63.58	71.36

Notes

1) For more information see <http://www.hp.com/go/printerclaims>.

2) For the B/W results, the device scan setting is set to "Scan in B/W".

ISO/IEC 17991 - Scan Full Report: Network Folder Productivity Measurement

Summary Report: A4

	Scanning Mode			Measurement result			
	File format version	Resolution	Scanning side	scEFTP 1setF (ipm)	scEFTP 30secF (ipm)	File size 30secF (Mbyte)	Number of Sets (30secF)
Colour	PDF 1.4	150	single sided	14.25	31.06	3.78	7
			double sided	14.45	40.60	5.47	10
B&W	PDF 1.4	150	single sided	14.48	33.94	0.74	7
			double sided	14.45	49.19	1.06	10

Notes

1) For more information see <http://www.hp.com/go/printerclaims>.

2) For the B/W results, the device scan setting is set to "Scan in B/W".

Test System Parameters		
	Item	Value
System	Computer name	HP Z240 SFF Workstation
	Processor	Intel Core i7 -6770, 3.4 GHz
	System Chip Set	Intel SKL/KBL Mobile/Desktop
	System Board	system devices, default system BIOS
	System Memory	8 GB
	Hard Drive Subsystem	Turbo Drive G2 256GB PCIe SSD
	Video Subsystem	Microsoft Basic Display Adaptor
	Optical Drive	HP HLDS DVDWRW GUD1N
	I/O Subsystem	Built-in
	USB Subsystem	USB 2.0/3.0
	Operating System	Win 10 Enterprise 64 Bit (10240)
Scanning Device Connection	Location of network folder	PC
	Internet Protocol	IPv4
	Transfer Protocol	SMB
	Hub	Trendnet Router and Gbit Switch
	Network Speed	TCP 10/1000 Mbit Ethernet
	Connection Cable	Cat6 Straight cable
	Wireless router	No use
	Others	No use