

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - LETTER

Brother MFC-8510DN

Printing device and settings	
Test Start Date and Time	6/19/2015 8:48
Tester	BG
Machine name/model	Brother MFC-8510DN
Colour or B&W	B&W
FW Version	Not Specified
Temperature and Humidity	80 degF / 26 degC, 26 %RH
Voltage	110V
Test End Date and Time	7/24/2015 10:16

Item	Value	
Mode and Setting	Driver Version	PCL6 1.05
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	Default
	Duplex B&W Settings	Default
	Setting N set count	Application
	Collating function	Activated (application)
Paper Path	Paper Sending Direction	Default
	Paper Size Setting	Default
	Paper Feeding	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: Letter			
Office Category Test for B&W Device		FSOT (seconds)	ESAT (ipm)
B&W	Simplex	15.9	38.2
	Duplex	22.0	20.3

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)	
Color Mode	Simplex - Adobe Reader		(1 set)			
	Simplex - Word		(1 set)			
	Simplex - Excel		(1 set)			
	Simplex - Average					
	Duplex - Adobe Reader	N/A	N/A	N/A		N/A
	Duplex - Word	N/A	N/A	N/A		N/A
	Duplex - Excel	N/A	N/A	N/A		N/A
	Duplex - Average	N/A	N/A	N/A		N/A
B&W mode (optional for color device)	Simplex - Adobe Reader	16.24	(1 set)	(7 sets)	(42 sets)	38.23
	Simplex - Word	15.74	(1 set)	(7 sets)		38.17
	Simplex - Excel	15.47	(1 set)	(7 sets)		38.31
	Simplex - Average	15.9	15.1	31.3	36.8	38.2
	Duplex - Adobe Reader	22.35	(1 set)	(4 sets)		20.36
	Duplex - Word	21.73	(1 set)	(4 sets)		20.36
	Duplex - Excel	21.80	(1 set)	(4 sets)		20.38
	Duplex - Average	22.0	10.9	16.7		20.3

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 Compaq Elite 8300 Small Form Factor
Processor	Intel Core i7 -3770, 3.4 GHz
System Chip Set	Intel C216 Chipset Family SMBus Host Controller
System Board	system devices, default system BIOS
System Memory	4 GB
Hard Drive Subsystem	Standard disk drive (Seagate)
Video Subsystem	AMD Radeon HD 6350
Optical Drive	HP DVD A DH16aCSHR ATA
I/O Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
TCP/IP	TCP/IP 10/1000
Operating System	Windows 7 64 Bit
Printing Applications	Microsoft Office 2010
Microsoft Office	Office 2010
Adobe Reader	10
Test files and location	Office category files, hard drive

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - A4

Brother MFC-8510DN

Printing device and settings	
Test Start Date and Time	6/19/2015 8:48
Tester	BG
Machine name/model	Brother MFC-8510DN
Colour or B&W	B&W
FW Version	Not Specified
Temperature and Humidity	80 degF / 26 degC, 26 %rH
Voltage	110V
Test End Date and Time	7/24/2015 10:16

Item	Value	
Mode and Setting	Driver Version	PCL6 1.05
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	Default
	Duplex B&W Settings	Default
	Setting N set count	Application
	Collating function	Activated (application)
Paper Path	Paper Sending Direction	Default
	Paper Size Setting	Default
	Paper Feeding	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 B&W Device		FSOT (seconds)	ESAT (ipm)
B&W	Simplex	16.3	36.6
	Duplex	22.0	19.8

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 + 30sec (# of sets)	1 set + 4min (# of sets)	
Colour Mode	Simplex - Adobe Reader		(1 set)			
	Simplex - Word		(1 set)			
	Simplex - Excel		(1 set)			
	Simplex - Average					
	Duplex - Adobe Reader	N/A	N/A	N/A		N/A
	Duplex - Word	N/A	N/A	N/A		N/A
	Duplex - Excel	N/A	N/A	N/A		N/A
	Duplex - Average	N/A	N/A	N/A		N/A
B&W mode (optional for color device)	Simplex - Adobe Reader	16.87	14.22 (1 set)	29.20 (6 sets)	35.09 (40 sets)	36.65
	Simplex - Word	15.94	15.05 (1 set)	29.36 (6 sets)		36.58
	Simplex - Excel	16.09	14.92 (1 set)	29.12 (6 sets)		36.58
	Simplex - Average	16.3	14.7	29.2	35.0	36.6
	Duplex - Adobe Reader	22.33	10.74 (1 set)	16.12 (4 sets)		19.82
	Duplex - Word	21.80	11.00 (1 set)	16.32 (4 sets)		19.84
	Duplex - Excel	21.66	11.06 (1 set)	16.36 (4 sets)		19.86
	Duplex - Average	22.0	10.9	16.2		19.8

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 Compaq Elite 8300 Small Form Factor
Processor	Intel Core i7 - 3770, 3.4 GHz
System Chip Set	Intel C216 Chipset Family SMBus Host Controller
System Board	system devices, default system BIOS
System Memory	4 GB
Hard Drive Subsystem	Standard disk drive (Seagate)
Video Subsystem	AMD Radeon HD 6350
Optical Drive	HP DVD A DH16aCSHR ATA
I/O Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
TCP/IP	TCP/IP 10/1000
Operating System	Windows 7 64 Bit
Printing Applications	Microsoft Office 2010
Microsoft Office	Office 2010
Adobe Reader	10
Test files and location	Office category files, hard drive

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

Full Detailed Test Report - LETTER

Brother MFC-8510DN

Printing device and settings	
Test Start Date and Time	6/19/2015 8:48
Tester	BC
Machine name/model	Brother MFC-8510DN
Colour or B&W	B&W
FW Version	Not Specified
Configuration (options)	Default
Controller	NA
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	78 degF / 26 degC, 33 %rH
Voltage	110V
Test End Date and Time	7/27/2015 9:58

Item	Value	
Mode and Setting	PDL and driver version	PCL6 1.05
	Print Quality mode	default
	B&W settings	default
	Paper feed orientation	Short Edge
Paper	Paper type setting	default
	Paper feeding	Standard cassette
Paper Path	Paper exit	Standard exit tray
	Output orientation	default (face up or face down)

ISO First Page Out Time Summary Report: Office Category		
Summary Report: Letter		
		F POT from Ready (seconds)
B&W	Simplex	11.19
	Duplex	15.94
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	F POT from Ready - Simplex					
	F POT from Ready - Duplex					
	F POT from Sleep - Simplex					
	Recovery Time					
	F POT from Off - Simplex					
	Warm-up Time					
B&W Mode	F POT from Ready - Simplex	11.13	10.73	11.71	11.19	49 Seconds
	F POT from Ready - Duplex	15.65	15.76	16.41	15.94	49 Seconds
	F POT from Sleep - Simplex			12.06		63 Minutes
	Recovery Time			0.4		
	F POT from Off - Simplex			43.30		
	Warm-up Time			31.59		
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.						

Test System Parameters		
Item	Value	
Test System	Computer	HP Compaq Elite 8300 Small Form Factor
	Processor	Intel Core i7 -3770, 3.4 GHz
	System Chip Set	Intel C216 Chipset Family SMBus Host Controller
	System Board	system devices, default system BIOS
	System Memory	4 GB
	Hard Drive Subsystem	Standard disk drive (Seagate)
	Video Subsystem	AMD Radeon HD 6350
	Optical Drive	HP DVD A DH16aCSHR ATA
	I/O Subsystem	Builitn
	USB Subsystem	USB 2.0/3.0
Printing Device Connection	TCP/IP	10/1000
Software	Operating System	Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1
	Printing Applications	Microsoft Office 2010 SP2
	Print Driver	Adobe Reader 10.1.4 PCL6 1.05

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

Full Detailed Test Report - A4

Brother MFC-8510DN

Printing device and settings	
Test Start Date and Time	6/19/2015 8:48
Tester	BG
Machine name/model	Brother MFC-8510DN
Colour or B&W	B&W
FW Version	Not Specified
Configuration (options)	Default
Controller	NA
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	78 degF / 26 degC, 33 %rH
Voltage	110V
Test End Date and Time	7/27/2015 9:58

Item	Value	
Mode and Setting	PDL and driver version	PCL6 1.05
	Print Quality mode	default
	B&W settings	default
	Paper feed orientation	Short Edge
Paper	Paper type setting	default
	Paper feeding	Standard cassette
Paper Path	Paper exit	Standard exit tray
	Output orientation	default (face up or face down)

ISO First Page Out Time Summary Report: Office Category		
Summary Report: A4		
		FPOT from Ready (seconds)
B&W	Simplex	11.42
	Duplex	15.91
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
Colour Mode	FPOT from Ready - Simplex					
	FPOT from Ready - Duplex					
	FPOT from Sleep - Simplex					
	Recovery Time					
	FPOT from Off - Simplex					
	Warm-up Time					
B&W Mode	FPOT from Ready - Simplex	10.99	11.31	11.95	11.42	49 Seconds
	FPOT from Ready - Duplex	15.49	16.11	16.12	15.91	49 Seconds
	FPOT from Sleep - Simplex			12.02		63 Minutes
	Recovery Time			0.1		
	FPOT from Off - Simplex			37.12		
	Warm-up Time			25.17		
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.						

Test System Parameters		
Item	Value	
Test System	Computer	HP Compaq Elite 8300 Small Form Factor
	Processor	Intel Core i7 -3770, 3.4 GHz
	System Chip Set	Intel C216 Chipset Family SMBus Host Controller
	System Board	system devices, default system BIOS
	System Memory	4 GB
	Hard Drive Subsystem	Standard disk drive (Seagate)
	Video Subsystem	AMD Radeon HD 6350
	Optical Drive	HP DVD A DH16aCSHR ATA
	I/O Subsystem	Builitn
	USB Subsystem	USB 2.0/3.0
Printing Device Connection	TCP/IP	10/1000
Software	Operating System	Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1
	Printing Applications	Microsoft Office 2010 SP2
	Print Driver	Adobe Reader 10.1.4 PCL6 1.05

ISO/IEC 29183 Copy Productivity Report

Full Detailed Test Report - LETTER

Brother MFC-8510DN

Machine Setup Information	
Test Start Date and Time	6/23/2015 8:34
Tester	BG
Machine name/model	Brother MFC-8510DN
Colour or B&W	B&W
FW Version	Not Specified
Configuration (options)	Not Specified
Temperature and Humidity	79 degF / 26 degC, 32 %rH
Test End Date and Time	6/24/2015 3:42

	Pre-set Item	Pre-set Value
Mode	Output Resolution	Default
	Output Quality	Default
	Copying Mode	Colour for Colour and B&W for B&W
	Auto Density Adjustment	Default
	Collating function	Set in Control Panel
Paper	Paper Sending Direction	Default
	Paper Type Setting	Default
Paper Path	Paper Feeding	Tray 2
	Paper Exit	Default
	Face Up Exit	Default (face down)
Temporary Stop	Fixing Capability	Default
	Image Quality Stability	Default
	Capacity of Paper	Default
	Others	None

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: Letter		
	sFCOT	sESAT (ipm)
B&W	11.3	38.4

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.
 NOTE: Copy count is limited to 99 by the control panel, which prevents the 4 minute test from achieving 4 minutes.

Detailed Report: LETTER						
	Target	sFCOT (secs)	sEFTP (ipm)			sESAT (ipm)
			1copy	1copy+30sec	1copy+4minutes	
B&W	A	11.89	5.04	27.39	35.16	38.42
				22 sets	99 sets	
	B	11.77	5.09	27.35		38.49
				22 sets		
	C	11.76	5.09	27.30		38.40
				22 sets		
	D	9.71	6.18	27.43		38.51
				22 sets		
Average	11.3	5.3	27.3	35.1	38.4	

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.

ISO/IEC 29183 Copy Productivity Report

Full Detailed Test Report - A4

Brother MFC-8510DN

Machine Setup Information	
Test Start Date and Time	6/23/2015 8:34
Tester	BG
Machine name/model	Brother MFC-8510DN
Colour or B&W	B&W
FW Version	Not Specified
Configuration (options)	Not Specified
Temperature and Humidity	79 degF / 26 degC, 32 %rH
Test End Date and Time	6/24/2015 3:42

	Pre-set Item	Pre-set Value
Mode	Output Resolution	Default
	Output Quality	Default
	Copying Mode	Colour for Colour and B&W for B&W
	Auto Density Adjustment	Default
	Collating function	Set in Control Panel
Paper	Paper Sending Direction	Default
	Paper Type Setting	Default
Paper Path	Paper Feeding	Tray 2
	Paper Exit	Default
	Face Up Exit	Default (face down)
Temporary Stop	Fixing Capability	Default
	Image Quality Stability	Default
	Capacity of Paper	Default
	Others	None

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)
B&W	9.9	36.6

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.
 NOTE: Copy count is limited to 99 by the control panel, which prevents the 4 minute test from achieving 4 minutes.

Detailed Report: A4						
	Target	sFCOT (secs)	sEFTP (ipm)			sESAT (ipm)
			1copy	1copy+30sec	1copy+4minutes	
B&W	A	9.83	6.09	25.93	33.61	36.59
				21 sets	99 sets	
	B	9.82	6.10	25.96		36.77
				21 sets		
	C	9.79	6.12	25.91		36.66
				21 sets		
	D	9.82	6.11	25.90		36.53
				21 sets		
Average	9.9	6.1	25.9	33.6	36.6	

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.

ISO/IEC 24735 Copy Productivity Report

Full Detailed Test Report - LETTER

Machine Setup Information	
Test Start Date and Time	6/24/2015 4:13
Tester	BG
Machine name/model	Brother MFC-8510DN
Colour or B&W	B&W
FW Version	Not Specified
Configuration (options)	Not Specified
Temperature and Humidity	78 degF / 26 degC, 34 %rH
Test End Date and Time	6/25/2015 3:28

Pre-set Item	Pre-set Value
Output Resolution	Default
Output Quality	Default
Copying Mode	Default
Auto Density Adjustment	Default
Collating function	Activated (application)
Paper Sending Direction	Default
Paper Type Setting	Default
Paper Feeding	Standard cassette
Paper Exit	Standard exit tray
Face Up Exit	Default
Fixing Capability	Default
Image Quality Stability	Default
Capacity of Paper	Default
Others	Default

Paper Manufacturer	HP / Xerox
Paper Weight	20lb / 75 g/m2
Paper Size	Letter / A4

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		(1 set)			
	1:2		(1 set)			
	2:2		(1 set)			
B&W mode	1:1	16.90	14.19	30.56 7 sets	36.77 43 sets	38.37
	1:2	27.84	8.60	15.16 4 sets		20.28
	2:2					

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

ISO/IEC 24735 Copy Productivity Report

Full Detailed Test Report - A4

Machine Setup Information	
Test Start Date and Time	6/24/2015 4:13
Tester	BG
Machine name/model	Brother MFC-8510DN
Colour or B&W	B&W
FW Version	Not Specified
Configuration (options)	Not Specified
Temperature and Humidity	78 degF / 26 degC, 34 %rH
Test End Date and Time	6/25/2015 3:28

Pre-set Item	Pre-set Value
Output Resolution	Default
Output Quality	Default
Copying Mode	Default
Auto Density Adjustment	Default
Collating function	Activated (application)
Paper Sending Direction	Default
Paper Type Setting	Default
Paper Feeding	Standard cassette
Paper Exit	Standard exit tray
Face Up Exit	Default
Fixing Capability	Default
Image Quality Stability	Default
Capacity of Paper	Default
Others	Default

Paper Manufacturer	HP / Xerox
Paper Weight	20lb / 75 g/m2
Paper Size	Letter / 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		(1 set)			
	1:2		(1 set)			
	2:2		(1 set)			
B&W mode	1:1	17.66	13.58	28.57 6 sets	35.11 40 sets	36.50
	1:2	28.75	8.32	14.80 4 sets		19.82
	2:2					

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