

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - LETTER

HP LaserJet Pro MFP M521DN

Printing device and settings		
Test Start Date and Time	3/22/2013 14:13	
Tester	AH	
Machine name/model	HP LaserJet Pro MFP M521DN	
Colour or B&W	B&W	
FW Version	20130320_0613	
Temperature and Humidity	79.2 degF / 26.2 degC, 20.9 %rH	
Voltage	110V	
Test End Date and Time	3/28/2013 15:41	

Item	Value	
Mode and Setting	Driver Version	61.140.4.14138
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	Default
	Duplex B&W Settings	Duplex set in driver
	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 Colorlok / Xerox Business 4200

Summary Report: Letter			
Office Category Test for B&W Device		FSOT (seconds)	ESAT (ipm)
B&W	Simplex	12	42
	Duplex	18	21
Notes Measured using ISO/IEC 24734, excludes first set of test documents. For more information see http://www.hp.com/go/printerclaims . Exact speed varies depending on the system configuration, software application, driver, and document complexity.			

Detailed Report: LETTER						
	Office Category Test	FSOT (secs)		EFTP (ipm)		ESAT (ipm)
		1 set only (1 set)	1 set + 30sec (1 set)	1 set + 30sec (# of sets)	1 set + 4min (# of sets)	1 set + 30sec
Defaults (Color for color device, B&W for monochrome device)	Simplex - Adobe Reader	12.41	19.33 (1 set)	37.19 (9 sets)	41.38 (49 sets)	42.41
	Simplex - Word	11.51	20.86 (1 set)	38.05 (9 sets)		42.42
	Simplex - Excel	11.54	20.79 (1 set)	38.01 (9 sets)		42.42
	Simplex - Average	12	20	37	41	42
	Duplex - Adobe Reader	19.23	12.46 (1 set)	19.32 (6 sets)		21.86
	Duplex - Word	17.16	13.98 (1 set)	19.96 (6 sets)		21.86
	Duplex - Excel	16.87	14.22 (1 set)	20.08 (6 sets)		21.86
	Duplex - Average	18	13	19		21
B&W mode (optional for color device)	Simplex - Adobe Reader	N/A	N/A	N/A	N/A	N/A
	Simplex - Word	N/A	N/A	N/A		N/A
	Simplex - Excel	N/A	N/A	N/A		N/A
	Simplex - Average	N/A	N/A	N/A	N/A	N/A
	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
Notes Measured using ISO/IEC 24734, excludes first set of test documents. For more information see http://www.hp.com/go/printerclaims . Exact speed varies depending on the system configuration, software application, driver, and document complexity.						

Test System Parameters	
Item	Value
Computer	HP XW8400 Workstation
Processor	Intel Xenon 2.66 GHz, X5355
System Chip Set	Intel 5000P
System Board	Standard system devices, default system BIOS
System Memory	4 GB
Hard Drive Subsystem	Standard disk drive (Seagate)
Video Subsystem	ATI FireGL V7200
Optical Drive	HP GSA-H60L SATA interface
I/O Subsystem	Built-in
USB Subsystem	USB 2.0
TCP/IP	TCP/IP 10/1000
Operating System	Windows XP Professional, SP 3
Printing Applications	Microsoft Office Word 2003
	Microsoft Office Excel 2003
	Adobe Reader 8.0
Test files and location	Office category files, hard drive

ISO/IEC 24734 Printing Productivity Report: Office Category

Full Detailed Test Report - A4

HP LaserJet Pro MFP M521DN

Printing device and settings		
Test Start Date and Time	3/22/2013 14:13	
Tester	AH	
Machine name/model	HP LaserJet Pro MFP M521DN	
Colour or B&W	B&W	
FW Version	20130320_0613	
Temperature and Humidity	79.2 degF / 26.2 degC, 20.9 %RH	
Voltage	110V	
Test End Date and Time	3/28/2013 15:41	

Item	Value	
Mode and Setting	Driver Version	61.140.4.14138
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	Default
	Duplex B&W Settings	Duplex set in driver
	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 Colorlok / Xerox Business 4200

Summary Report: A4			
Office Category Test for B&W Device		FSOT (seconds)	ESAT (ipm)
B&W	Simplex	13	40
	Duplex	18	21

Notes
Measured using ISO/IEC 24734, excludes first set of test documents. For more information see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration, software application, driver, and document complexity.

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
Defaults (Color for color device, B&W for monochrome device)	Simplex - Adobe Reader	12.70	18.90 (1 set)	35.72 (9 sets)	39.38 (46 sets)	40.40
	Simplex - Word	11.79	20.36 (1 set)	36.42 (9 sets)		40.40
	Simplex - Excel	11.79	20.36 (1 set)	36.41 (9 sets)		40.40
	Simplex - Average	13	19	36	39	40
	Duplex - Adobe Reader	19.40	12.36 (1 set)	18.92 (6 sets)		21.28
	Duplex - Word	17.41	13.78 (1 set)	19.46 (6 sets)		21.26
	Duplex - Excel	17.16	13.98 (1 set)	19.56 (6 sets)		21.26
	Duplex - Average	18	13	19		21
B&W mode (optional for color device)	Simplex - Adobe Reader	N/A	N/A	N/A	N/A	N/A
	Simplex - Word	N/A	N/A	N/A		N/A
	Simplex - Excel	N/A	N/A	N/A		N/A
	Simplex - Average	N/A	N/A	N/A	N/A	N/A
	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

Notes
Measured using ISO/IEC 24734, excludes first set of test documents. For more information see <http://www.hp.com/go/printerclaims>. Exact speed varies depending on the system configuration, software application, driver, and document complexity.

Test System Parameters	
Item	Value
Computer	HP XW8400 Workstation
Processor	Intel Xenon 2.66 GHz, X5355
System Chip Set	Intel 5000P
System Board	Standard system devices, default system BIOS
System Memory	4 GB
Hard Drive Subsystem	Standard disk drive (Seagate)
Video Subsystem	ATI FireGL V7200
Optical Drive	HP GSA-H60L SATA interface
I/O Subsystem	Builtin
USB Subsystem	USB 2.0
TCP/IP	TCP/IP 10/1000
Operating System	Windows XP Professional, SP 3
Printing Applications	Microsoft Office Word 2003
	Microsoft Office Excel 2003
	Adobe Reader 8.0
Test files and location	Office category files, hard drive

ISO/IEC 29183 Copy Productivity Report

Full Detailed Test Report - LETTER

HP LaserJet Pro MFP M521DN

Machine Setup Information	
Test Start Date and Time	3/22/2013 14:13
Tester	AH
Machine name/model	HP LaserJet Pro MFP M521DN
Colour or B&W	B&W
Configuration (options)	Not Specified
Temperature and Humidity	79.2 degF / 26.2 degC, 20.9 %rH
Test End Date and Time	3/28/2013 15:41

	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 Colorlok / Xerox Business 4200

Summary Report: Letter		
	sFCOT	sESAT (ipm)
B&W	12	42

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.

Detailed Report: LETTER						
	Target	sFCOT (secs)	sEFTP (ipm)			sESAT (ipm)
			1copy	1copy+30sec	1copy+4minutes	
B&W	A	11.38	5.27	34.03		42.43
				29 sets		
	B	11.38	5.27	34.02		42.43
				29 sets		
	C	11.41	5.25	34.03		42.43
				29 sets		
	D	11.40	5.26	34.03		42.44
				29 sets		
Average		12	5	34		42

Notes
 First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information see

ISO/IEC 29183 Copy Productivity Report

Full Detailed Test Report - A4

HP LaserJet Pro MFP M521DN

Machine Setup Information	
Test Start Date and Time	3/22/2013 14:13
Tester	AH
Machine name/model	HP LaserJet Pro MFP M521DN
Colour or B&W	B&W
Configuration (options)	Not Specified
Temperature and Humidity	79.2 degF / 26.2 degC, 20.9 %rH
Test End Date and Time	3/28/2013 15:41

	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 Colorlok / Xerox Business 4200

Summary Report: A4		
	sFCOT	sESAT (ipm)
B&W	12	40

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.

Detailed Report: A4							
	Target	sFCOT (secs)	sEFTP (ipm)			sESAT (ipm)	
			1copy	1copy+30sec	1copy+4minutes		
B&W	A	11.75	5.10	32.47		40.40	
				28 sets			
	B	11.63	5.15	32.43		40.40	
				28 sets			
	C	11.64	5.15	32.40		40.41	
				28 sets			
	D	11.63	5.15	32.39		40.42	
				28 sets			
	Average		12	5	32		40

Notes
 First Copy Out and Copy Speed measured using ISO/IEC 29183, excludes first set of test documents. For more information see

ISO/IEC 24735 Copy Productivity Report

Full Detailed Test Report - LETTER

Machine Setup Information	
Test Start Date and Time	4/15/2013 16:50
Tester	ah
Machine name/model	HP LaserJet Pro MFP M521DN
Colour or B&W	B&W
FW Version	20121219
Configuration (options)	Not Specified
Temperature and Humidity	76 degF / 25 degC, 15 %rH
Test End Date and Time:	4/16/2013 16:28
Pre-set Item	Pre-set Value
Output Resolution	Default
Output Quality	Default
Copying Mode	Default
Auto Density Adjustment	Default
Collating function	Activated (if not activated in default mode)
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	17.20	13.95	34.58 9 sets	40.72 49 sets	42.43
	1:2	25.32	9.46	17.94 6 sets		21.82
	2:2	24.29	9.86	18.10 6 sets		21.84
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	4/15/2013 16:50
Tester	ah
Machine name/model	HP LaserJet Pro MFP M521DN
Colour or B&W	B&W
FW Version	20121219
Configuration (options)	Not Specified
Temperature and Humidity	76 degF / 25 degC, 15 %rH
Test End Date and Time:	4/16/2013 16:28
Pre-set Item	Pre-set Value
Output Resolution	Default
Output Quality	Default
Copying Mode	Default
Auto Density Adjustment	Default
Collating function	Activated (if not activated in default mode)
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	18.11	13.24	32.92 9 sets	38.65 46 sets	40.40
	1:2	26.04	9.20	17.46 6 sets		21.26
	2:2	24.78	9.66	17.72 6 sets		21.28

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