Full detailed report

(ISO/IEC 17629)

Model

Printing device and test setting

Test Start Date and Time	2019/11/19 . 7:50
Tester	H.Nakata
Color or B/W	Color Printing device
Configuration (Option)	Option wasn't used.
Temperature and Humidity	22.8℃ / 41.2 %
Voltage	Within Rating voltage
Test End Date and Time	2020/7/2 . 13:40

Modes and Settings	Print Quality mode	Default
	B&W settings	Activated (Driver, select"Grayscale")
Paper	Paper sending direction	short edge
	Paper type setting	Default
Paper path	Paper feeding	Auto Select (Paper Cassette 1)
	Paper exit	Output tray
	Output orientation	Default (face up)
	Duplexing unit	Default

Paper	Manufacturer	Fuji Xerox
	Weight	64g/m2
	Size	A4
	Paper type/Name	PPC/GAAA6395

Test system parameters

Test system	Computer	EPSON Direct Endeavor MR7400
	Processor	Intel ® Core™ i7-6700K(4GHz)
	System Chip Set	Intel ® H170 Chip Set
	System Board	Pegatron:IPMSK-MI BIOS :AP5U-0032-GW2
	System Memory	8.0GB(4.0GB×2) PC4-2133 DDR4 SDRAM
	Hard Drive and Subsystem	Seagate:ST500DM002 500GB SATA 600MB/s 7200rpm ×2
	Video system	NVIDIA® Quadro® K2200 4GB
	Optical Drive	PLDS:DH-16D8SH DVD-ROM Drive SATA
	I/O Subsystem	USB keyboard and mouse
	USB Subsystem	System board USB controller , USB3.0
Software	Operating System	Microsoft Windows 10 Pro 64bit
	Printing Application	Adobe acrobat Reader11
		Microsoft Office Excel2016
		Microsoft Office Word2016
	Print Driver	Ver.3.00.00
	Test Files Location	Office Category files, hard drive
Printing Device Connection	USB	USB 2.0 Keyboard and mouse were connected.

Application setting deviations from default.

Changing from default.	Excel and Word	"Scale Content for A4 or 8.5 x 11" Paper size" set to off.
	Adobe Reader	"Paper Scaling" set to "None".

Summary Report

		Ready FPOT (sec)
Color	Simplex Average	5.10
	Duplex Average	10.83
B&W mode	Simplex Average	4.75
	Duplex Average	10.62

Notes

・All printing device and print driver setting were default mode.

・For the B&W result, the print driver was set to"Grayscale"

・For the duplex result, the print driver was set to "Auto(Long-edge binding)" in "2-sided printing"

Full Report

			PDF (sec)	Word (sec)	Excel (sec)	Average (sec)	Delay Time
Color	Simplex	Ready FPOT	5.21	4.85	5.22	5.10	50sec
		Sleep FPOT	5.87				11min
		Recovery Time	0.66				
		OFF FPOT	18.50				
		Warm-up Time	13.29				
	Duplex	Ready FPOT	10.82	10.42	11.23	10.83	50sec
B&W mode	Simplex	Ready FPOT	4.94	4.66	4.64	4.75	50sec
		Sleep FPOT	5.71				11min
		Recovery Time	0.77				
		OFF FPOT	17.82				
		Warmup Time	12.88				
	Duplex	Ready FPOT	10.58	10.20	11.06	10.62	50sec

Notes

・All printing device and print driver setting were default mode.

・For the B&W result, the print driver was set to"Grayscale"

・For the duplex result, the print driver was set to "Auto(Long-edge binding)" in "2-sided printing"

・Annex F used to determine delay time for FPOT from Ready.

・Sleep FPOT Additional Wait Time is defined as 10 minutes for following reasons.

- It is an inkjet printer.
- Recovery Time does not depend on the elapsed time after transition to Sleep.

Full detailed report

(ISO/IEC 17629)

Model

Printing device and test setting

Test Start Date and Time	2019/11/19 . 10:45
Tester	H.Nakata
Color or B/W	Color Printing device
Configuration (Option)	Option wasn't used.
Temperature and Humidity	22.8℃ / 41.2 %
Voltage	Within Rating voltage
Test End Date and Time	2020/7/7 . 11:05

Modes and Settings	Print Quality mode	Default
	B&W settings	Activated (Driver, select"Grayscale")
Paper	Paper sending direction	short edge
	Paper type setting	Default
Paper path	Paper feeding	Auto Select (Paper Cassette 1)
	Paper exit	Output tray
	Output orientation	Default (face up)
	Duplexing unit	Default

Paper	Manufacturer	Fuji Xerox
	Weight	64g/m2
	Size	Letter
	Paper type/Name	PPC/V604

Test system parameters

Test system	Computer	EPSON Direct Endeavor MR7400
	Processor	Intel ® Core™ i7-6700K(4GHz)
	System Chip Set	Intel ® H170 Chip Set
	System Board	Pegatron:IPMSK-MI BIOS :AP5U-0032-GW2
	System Memory	8.0GB(4.0GB×2) PC4-2133 DDR4 SDRAM
	Hard Drive and Subsystem	Seagate:ST500DM002 500GB SATA 600MB/s 7200rpm ×2
	Video system	NVIDIA® Quadro® K2200 4GB
	Optical Drive	PLDS:DH-16D8SH DVD-ROM Drive SATA
	I/O Subsystem	USB keyboard and mouse
	USB Subsystem	System board USB controller , USB3.0
Software	Operating System	Microsoft Windows 10 Pro 64bit
	Printing Application	Adobe acrobat Reader11
		Microsoft Office Excel2016
		Microsoft Office Word2016
	Print Driver	Ver.3.00.00
	Test Files Location	Office Category files, hard drive
Printing Device Connection	USB	USB 2.0 Keyboard and mouse were connected.

Application setting deviations from default.

Changing from default.	Excel and Word	"Scale Content for A4 or 8.5 x 11" Paper size" set to off.
	Adobe Reader	"Paper Scaling" set to "None".

Summary Report

		Ready FPOT (sec)
Color	Simplex Average	5.03
	Duplex Average	10.74
B&W mode	Simplex Average	4.92
	Duplex Average	10.55

Notes

・All printing device and print driver setting were default mode.

・For the B&W result, the print driver was set to"Grayscale"

・For the duplex result, the print driver was set to "Auto(Long-edge binding)" in "2-sided printing"

Full Report

			PDF (sec)	Word (sec)	Excel (sec)	Average (sec)	Delay Time
Color	Simplex	Ready FPOT	5.17	4.71	5.21	5.03	50sec
		Sleep FPOT	5.92				11min
		Recovery Time	0.75				
		OFF FPOT	18.18				
		Warm-up Time	13.01				
	Duplex	Ready FPOT	10.86	10.27	11.07	10.74	50sec
B&W mode	Simplex	Ready FPOT	4.98	4.64	5.13	4.92	50sec
		Sleep FPOT	5.68				11min
		Recovery Time	0.70				
		OFF FPOT	17.79				
		Warmup Time	12.81				
	Duplex	Ready FPOT	10.58	10.15	10.92	10.55	50sec

Notes

・All printing device and print driver setting were default mode.

・For the B&W result, the print driver was set to"Grayscale"

・For the duplex result, the print driver was set to "Auto(Long-edge binding)" in "2-sided printing"

・Annex F used to determine delay time for FPOT from Ready.

・Sleep FPOT Additional Wait Time is defined as 10 minutes for following reasons.

- It is an inkjet printer.
- Recovery Time does not depend on the elapsed time after transition to Sleep.

Full detailed report

(ISO/IEC 24734 Office Category Test)

Model

Printing device and test setting

Test Start Date and Time	2019/11/19 . 10:05
Tester	H.Nakata
Color or B/W	Color Printing device
Configuration (Option)	Option wasn't used.
Temperature and Humidity	22.8℃ / 41.2 %
Voltage	Within Rating voltage
Test End Date and Time	2020/7/6 . 9:10

Modes and Settings	Print Quality mode	Default
	B&W settings	Activated (Driver, select"Grayscale")
	Setting N set count	Activated (Application, select "count up" or "count down")
	Collating function	Activated (Application, select "collate")
Paper	Paper sending direction	Default
	Paper type setting	Default
Paper path	Paper feeding	Auto Select (Paper Cassette 1)
	Paper exit	Output tray
	Output orientation	Default (face up)
	Duplexing unit	Default

Paper	Manufacturer	Fuji Xerox
	Weight	64g/m2
	Size	A4
	Paper type/Name	PPC/GAAA6395

Test system parameters

Test system	Computer	EPSON Direct Endeavor MR7400
	Processor	Intel ® Core™ i7-6700K(4GHz)
	System Chip Set	Intel ® H170 Chip Set
	System Board	Pegatron:IPMSK-MI BIOS :AP5U-0032-GW2
	System Memory	8.0GB(4.0GB × 2) PC4-2133 DDR4 SDRAM
	Hard Drive and Subsystem	Seagate:ST500DM002 500GB SATA 600MB/s 7200rpm × 2
	Video system	NVIDIA® Quadro® K2200 4GB
	Optical Drive	PLDS:DH-16D8SH DVD-ROM Drive SATA
	I/O Subsystem	USB keyboard and mouse
	USB Subsystem	System board USB controller , USB3.0
Software	Operating System	Microsoft Windows 10 Pro 64bit
	Printing Application	Adobe acrobat Reader11
		Microsoft Office Excel2016
		Microsoft Office Word2016
	Print Driver	Ver.3.00.00
	Test Files Location	Office Category files, hard drive
Printing Device Connection	USB	USB 2.0 Keyboard and mouse were connected.

Application setting deviations from default.

Changing from default.	Excel and Word	"Scale Content for A4 or 8.5 x 11" Paper size" set to off.
	Adobe Reader	"Paper Scaling" set to "None".

Summary Report

Office Category Test		FSOT [seconds]	ESAT [ppm/ipm]
Color (Default)	Simplex Average	12.63	25.39
	Duplex Average	15.87	21.83
B&W mode	Simplex Average	12.41	25.81
	Duplex Average	15.45	22.14

Notes
・All printing device and print driver setting were default mode.
・For the B&W result, the print driver was set to"Grayscale"
・For the duplex result, the print driver was set to "Auto(Long-edge binding)" in "2-sided printing"

Full Report

Office Category Test			FSOT [seconds]	EFTP [ppm/ipm] 1set test	EFTP [ppm/ipm] 1set+30 seconds (# sets)	EFTP [ppm/ipm] 1 set+4 minutes (# sets)	ESAT [ppm/ipm]
Color (Default)	Simplex	PDF	13.03	18.41	21.71 (4 set)	23.06 (25 set)	23.58
		Word	11.30				30.03
		Excel	13.55				22.58
		Average	12.63				25.39
	Duplex	PDF	16.56	14.49	18.30 (4 set)		20.45
		Word	14.19				25.46
		Excel	16.84				19.58
		Average	15.87				21.83
B&W mode	Simplex	PDF	12.71	18.88	22.81 (5 set)	23.90 (26 set)	24.28
		Word	11.04				30.26
		Excel	13.46				22.89
		Average	12.41				25.81
	Duplex	PDF	15.97	15.02	18.87 (4 set)		21.01
		Word	13.84				25.61
		Excel	16.52				19.81
		Average	15.45				22.14

Notes
・All printing device and print driver setting were default mode.
・For the B&W result, the print driver was set to"Grayscale"
・For the duplex result, the print driver was set to "Auto(Long-edge binding)" in "2-sided printing"

Full detailed report

(ISO/IEC 24734 Office Category Test)

Model

Printing device and test setting

Test Start Date and Time	2019/11/19 . 10:25
Tester	H.Nakata
Color or B/W	Color Printing device
Configuration (Option)	Option wasn't used.
Temperature and Humidity	22.8℃ / 41.2 %
Voltage	Within Rating voltage
Test End Date and Time	2020/7/6 . 11:30

Modes and Settings	Print Quality mode	Default
	B&W settings	Activated (Driver, select"Grayscale")
	Setting N set count	Activated (Application, select "count up" or "count down")
	Collating function	Activated (Application, select "collate")
Paper	Paper sending direction	Default
	Paper type setting	Default
Paper path	Paper feeding	Auto Select (Paper Cassette 1)
	Paper exit	Output tray
	Output orientation	Default (face up)
	Duplexing unit	Default

Paper	Manufacturer	Fuji Xerox
	Weight	64g/m2
	Size	Letter
	Paper type/Name	PPC/V604

Test system parameters

Test system	Computer	EPSON Direct Endeavor MR7400
	Processor	Intel ® Core™ i7-6700K(4GHz)
	System Chip Set	Intel ® H170 Chip Set
	System Board	Pegatron:IPMSK-MI BIOS :AP5U-0032-GW2
	System Memory	8.0GB(4.0GB × 2) PC4-2133 DDR4 SDRAM
	Hard Drive and Subsystem	Seagate:ST500DM002 500GB SATA 600MB/s 7200rpm × 2
	Video system	NVIDIA® Quadro® K2200 4GB
	Optical Drive	PLDS:DH-16D8SH DVD-ROM Drive SATA
	I/O Subsystem	USB keyboard and mouse
	USB Subsystem	System board USB controller , USB3.0
Software	Operating System	Microsoft Windows 10 Pro 64bit
	Printing Application	Adobe acrobat Reader11
		Microsoft Office Excel2016
		Microsoft Office Word2016
	Print Driver	Ver.3.00.00
	Test Files Location	Office Category files, hard drive
Printing Device Connection	USB	USB 2.0 Keyboard and mouse were connected.

Application setting deviations from default.

Changing from default.	Excel and Word	"Scale Content for A4 or 8.5 x 11" Paper size" set to off.
	Adobe Reader	"Paper Scaling" set to "None".

Summary Report

Office Category Test		FSOT [seconds]	ESAT [ppm/ipm]
Color (Default)	Simplex Average	12.39	26.19
	Duplex Average	15.72	22.15
B&W mode	Simplex Average	12.07	26.75
	Duplex Average	15.32	22.51

Notes
・All printing device and print driver setting were default mode.
・For the B&W result, the print driver was set to"Grayscale"
・For the duplex result, the print driver was set to "Auto(Long-edge binding)" in "2-sided printing"

Full Report

Office Category Test			FSOT [seconds]	EFTP [ppm/ipm] 1set test	EFTP [ppm/ipm] 1set+30 seconds (# sets)	EFTP [ppm/ipm] 1 set+4 minutes (# sets)	ESAT [ppm/ipm]
Color (Default)	Simplex	PDF	12.80	18.75	22.59 (5 set)	23.49 (25 set)	24.31
		Word	10.94				30.95
		Excel	13.41				23.33
		Average	12.39				26.19
	Duplex	PDF	16.07	14.93	18.90 (4 set)		21.06
		Word	14.07				25.56
		Excel	17.02				19.83
		Average	15.72				22.15
B&W mode	Simplex	PDF	12.30	19.51	23.33 (5 set)	24.33 (26 set)	25.07
		Word	10.74				31.47
		Excel	13.16				23.71
		Average	12.07				26.75
	Duplex	PDF	15.67	15.31	19.28 (4 set)		21.49
		Word	13.74				25.99
		Excel	16.54				20.07
		Average	15.32				22.51

Notes
・All printing device and print driver setting were default mode.
・For the B&W result, the print driver was set to"Grayscale"
・For the duplex result, the print driver was set to "Auto(Long-edge binding)" in "2-sided printing"

Full detailed report

(ISO/IEC 24735 General Performance Test)

Model

Machine Setup Information

Test Start Date and Time	2019/11/21 . 8:30
Tester	H.Nakata
Color or B/W	Color copying device
Configuration (Option)	Option wasn't used
Temperature and Humidity	22.1℃ / 27.7 %
Test End Date and Time	2020/7/3 . 14:40

	Pre-set item	Pre-set value
Mode	Output resolution	Default
	Output Quality	Default
	Copying mode	Default
	Auto density adjustment	Default
	Collating function	Activated
Paper	Paper sending direction	Default
	Paper type setting	Default
Paper path	Paper feeding	Auto
	Paper exit	Standard exit tray
	Face up exit	Default
	Duplex copying unit	Default (used in 1:2 mode and 2:2 mode)
Temporary stop	N/A	N/A

Paper	Manufacturer	Fuji Xerox
	Weight	64g/m2
	Size	A4
	Paper type/Name	PPC/GAAA6395

Summary Report

	Copying mode	FSOT [seconds]	ESAT [ipm]
Color	1:1 (Simplex : Simplex)	48.35	23.59
	1:2 (Simplex : Duplex)	50.56	19.10
	2:2 (Duplex : Duplex)	60.23	19.10
B&W	1:1 (Simplex : Simplex)	31.40	24.52
	1:2 (Simplex : Duplex)	32.91	19.65
	2:2 (Duplex : Duplex)	43.82	20.03

Full Report

Color mode	FSOT [seconds]	EFTP [ipm]			ESAT [ipm]
		1set test	1set+30 seconds (# sets)	1 set+4 minutes (# sets)	
1:1 (Simplex : Simplex)	48.35	4.96	12.39	20.21	23.59
			(4 sets)	(25 sets)	
1:2 (Simplex : Duplex)	50.56	4.74	10.83	16.37	19.10
			(4 sets)	(20 sets)	
2:2 (Duplex : Duplex)	60.23	3.98	9.72	15.89	19.10
			(4 sets)	(20 sets)	

B&W mode	FSOT [seconds]	EFTP [ipm]			ESAT [ipm]
		1set test	1set+30 seconds (# sets)	1 set+4 minutes (# sets)	
1:1 (Simplex : Simplex)	31.40	7.64	17.38	22.31	24.52
			(5 sets)	(26 sets)	
1:2 (Simplex : Duplex)	32.91	7.28	13.60	17.90	19.65
			(4 sets)	(21 sets)	
2:2 (Duplex : Duplex)	43.82	5.47	11.91	17.40	20.03
			(4 sets)	(21 sets)	

Full detailed report

(ISO/IEC 24735 General Performance Test)

Model

Machine Setup Information

Test Start Date and Time	2019/11/20 . 15:50
Tester	H.Nakata
Color or B/W	Color copying device
Configuration (Option)	Option wasn't used
Temperature and Humidity	22.4℃ ／ 27.6 %
Test End Date and Time	2020/7/10 . 10:55

	Pre-set item	Pre-set value
Mode	Output resolution	Default
	Output Quality	Default
	Copying mode	Default
	Auto density adjustment	Default
	Collating function	Activated
Paper	Paper sending direction	Default
	Paper type setting	Default
Paper path	Paper feeding	Auto
	Paper exit	Standard exit tray
	Face up exit	Default
	Duplex copying unit	Default (used in 1:2 mode and 2:2 mode)
Temporary stop	N/A	N/A

Paper	Manufacturer	Fuji Xerox
	Weight	64g/m2
	Size	Letter
	Paper type/Name	PPC/V604

Summary Report

	Copying mode	FSOT [seconds]	ESAT [ipm]
Color	1:1 (Simplex : Simplex)	47.22	23.96
	1:2 (Simplex : Duplex)	48.73	19.56
	2:2 (Duplex : Duplex)	58.47	19.65
B&W	1:1 (Simplex : Simplex)	31.00	24.79
	1:2 (Simplex : Duplex)	32.63	19.88
	2:2 (Duplex : Duplex)	43.27	20.29

Full Report

Color mode	FSOT [seconds]	EFTP [ipm]			ESAT [ipm]
		1set test	1set+30 seconds (# sets)	1 set+4 minutes (# sets)	
1:1 (Simplex : Simplex)	47.22	5.07	12.71	20.43	23.96
			(4 sets)	(25 sets)	
1:2 (Simplex : Duplex)	48.73	4.92	11.13	16.65	19.56
			(4 sets)	(21 sets)	
2:2 (Duplex : Duplex)	58.47	4.10	9.99	16.31	19.65
			(4 sets)	(21 sets)	

B&W mode	FSOT [seconds]	EFTP [ipm]			ESAT [ipm]
		1set test	1set+30 seconds (# sets)	1 set+4 minutes (# sets)	
1:1 (Simplex : Simplex)	31.00	7.73	17.60	22.43	24.79
			(5 sets)	(26 sets)	
1:2 (Simplex : Duplex)	32.63	7.35	13.74	18.08	19.88
			(4 sets)	(21 sets)	
2:2 (Duplex : Duplex)	43.27	5.54	12.09	17.02	20.29
			(4 sets)	(21 sets)	

Full detailed report

(ISO/IEC 29183)

Model

Machine setting

Test Start Date and Time	2020/7/2 . 8:30
Tester	T.Hirasawa
Color or B/W	Color MFD
Configuration (Option)	Option wasn't used
Temperature	22.7 ℃
Humidity	60.7 %
Test End Date and Time	2020/7/2 . 16:00

	Pre-set item	Pre-set value
Mode	Output resolution	Default
	Output Quality	Default
	Copying mode	Default
	Auto density adjustment	N/A
	Collating function	N/A
Paper	Paper sending direction	Default
	Paper type setting	Default
Paper path	Paper feeding	Auto Select
	Paper exit	Standard exit tray
	Output orientation	Default (face up)
Temporary stop	N/A	N/A

Paper	Manufacturer	Fuji Xerox
	Weight	64g/m2
	Size	A4
	Paper type/Name	PPC/GAAA6395

Summary Report

	sFCOT [seconds]	sESAT [ipm]
Color	9.55	23.23
B&W	4.92	24.00

Full Report

	Target	sFCOT [seconds]	sEFTP [ipm]			sESAT [ipm]
			1Copy test	1Copy+30 seconds (# copies)	1Copy+4 minutes (# copies)	
Color	A	9.54	6.28	18.44 13 copies	22.37 94 copies	22.46
	B	9.50	6.31	21.95 15 copies		27.25
	C	9.47	6.33	18.10 13 copies		21.90
	D	9.69	6.18	17.45 12 copies		21.34
	Average	9.55	6.27	18.98		23.23
B&W	A	4.95	12.13	21.53 13 copies	23.87 98 copies	23.32
	B	4.48	13.39	25.55 15 copies		27.70
	C	5.15	11.65	20.75 13 copies		22.35
	D	5.08	11.82	20.95 13 copies		22.65
	Average	4.92	12.24	22.19		24.00

Full detailed report

(ISO/IEC 29183)

Model

Machine setting

Test Start Date and Time	2019/11/20 . 10:30
Tester	H.Nakata
Color or B/W	Color MFD
Configuration (Option)	Option wasn't used
Temperature	22.4 ℃
Humidity	27.6 %
Test End Date and Time	2020/7/9 . 10:40

	Pre-set item	Pre-set value
Mode	Output resolution	Default
	Output Quality	Default
	Copying mode	Default
	Auto density adjustment	N/A
	Collating function	N/A
Paper	Paper sending direction	Default
	Paper type setting	Default
Paper path	Paper feeding	Auto
	Paper exit	Standard exit tray
	Output orientation	Default (face up)
Temporary stop	N/A	N/A

Paper	Manufacturer	Fuji Xerox
	Weight	64g/m2
	Size	Letter
	Paper type/Name	PPC/V604

Summary Report

	sFCOT [seconds]	sESAT [ipm]
Color	9.14	24.81
B&W	4.85	25.77

Full Report

	Target	sFCOT [seconds]	sEFTP [ipm]			sESAT [ipm]
			1Copy test	1Copy+30 seconds (# copies)	1Copy+4 minutes (# copies)	
Color	A	9.08	6.61	19.19 13 copies	22.47 94 copies	23.52
	B	8.84	6.79	24.50 17 copies		30.09
	C	9.27	6.47	19.40 13 copies		23.77
	D	9.37	6.39	17.90 12 copies		21.89
	Average	9.14	6.56	20.24		24.81
B&W	A	4.84	12.40	22.62 14 copies	23.80 98 copies	24.48
	B	4.54	13.22	28.07 17 copies		30.60
	C	4.86	12.35	22.80 14 copies		24.81
	D	5.15	11.64	21.20 13 copies		23.22
	Average	4.85	12.40	23.67		25.77