

**Yield Reporting Form for HP Inc. Toner Supplies Solutions Group:  
HP Color LaserJet Pro M454 and HP Color LaserJet Pro MFP M479 cartridge models  
W2020A, W2021A, W2022A, W2023A/W2030A, W2031A, W2032A, W2033A/W2040A,  
W2041A, W2042A, W2043A<sup>1</sup>**

### Declared ISO Yield

**Toner cartridge yield:**

**Average composite CMY cartridge yield 2,100 standard pages<sup>2</sup>**

**Average K cartridge yield 2,400 standard pages<sup>2</sup>**

*Declared yield value in accordance with ISO/IEC 19798 based on continuous printing.*

*Values reported do not include measurement uncertainty.*

*The results within this report relate only to the items tested as identified in this report.*

### Calculated test values

<b>90% lower confidence limit<sup>2</sup></b>	
HP Cyan LaserJet Toner Cartridge	2425 pages
HP Magenta LaserJet Toner Cartridge	2414 pages
HP Yellow LaserJet Toner Cartridge	1849 pages
Composite CMY	2194 pages
HP Black LaserJet Toner Cartridge	2405 pages

Test date: beginning	3/5/2020
Test dates: ending	3/11/2020
Number of cartridges used in testing	48
Number of cartridges used in calculations	C=12, M=12, Y=12, K=12 (Total=48)
Type of cartridge	All-in-one
Shake procedure used?	Yes
Print mode	Continuous
MPACCO Mode	Off
Number of engines used in testing	4
Media	HP Multipurpose
Paper size	Letter
Paper feed orientation	Short edge
Computer model	HP 250 G5 Notebook
Operating system	Microsoft Windows 10
Application software or HP Direct Print	Batch file running hpnpf.exe
Print driver version or HP Direct Print	None: Internal PDF interpreter
Connection type	network
Test page version	ISO-IEC 24712
Power on/off every day	No

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Printer Product Numbers Engine serial numbers: Engine Firmware Version:

HP Color LaserJet Pro M454	VNB3K03668	SHMNT2XXXN002.2002B.00
HP Color LaserJet Pro M454	VNB3S03632	SHMNT2XXXN002.2002B.00
HP Color LaserJet Pro MFP M479	MXBCM9Y3HT	CLRWTRXXXN002.2002B.00
HP Color LaserJet Pro MFP M479	MXBCMB81F4	CLRWTRXXXN002.2002B.00

### Cartridge testing data

Test environmental limits:

	Temperature	Humidity
	°C	%RH
Max running average	23.3	54
Min running average	23.3	48
Average	23.3	50

Cyan (W2021A) in CLJ Pro M454 and CLJ Pro MFP M479				Magenta (W2023A) in CLJ Pro M454 and CLJ Pro MFP M479			
Average:		2,492		Average:		2,471	
Standard Deviation:		128		Standard Deviation:		110	
90% LCB:		2,425		90% LCB:		2,414	
Cartridge#	Lot Code	Engine SerNo	Cartridge Yield	Cartridge#	Lot Code	Engine SerNo	Cartridge Yield
W2021A-62	9K15M1Ea	VNB3K03668	2,405	W2023A-62	9J21M3Ea	VNB3K03668	2,445
W2021A-63	9K15M1Ea	VNB3S03632	2,510	W2023A-63	9J21M3Ea	VNB3S03632	2,550
W2021A-64	9K15M1Ea	MXBCM9Y3HT	2,250	W2023A-64	9J21M3Ea	MXBCM9Y3HT	2,350
W2021A-65	9K15M1Ea	MXBCMB81F4	2,415	W2023A-65	9J21M3Ea	MXBCMB81F4	2,585
W2021A-66	9K09M2Ea	VNB3K03668	2,465	W2023A-66	9K01M2Ea	VNB3K03668	2,575
W2021A-67	9K09M2Ea	VNB3S03632	2,450	W2023A-67	9K01M2Ea	VNB3S03632	2,550
W2021A-68	9K09M2Ea	MXBCM9Y3HT	2,350	W2023A-68	9K01M2Ea	MXBCM9Y3HT	2,375
W2021A-69	9K09M2Ea	MXBCMB81F4	2,595	W2023A-69	9K01M2Ea	MXBCMB81F4	2,580
W2021A-70	9J17M3Ea	VNB3K03668	2,715	W2023A-70	9J27M1Ea	VNB3K03668	2,585
W2021A-71	9J17M3Ea	VNB3S03632	2,580	W2023A-71	9J27M1Ea	VNB3S03632	2,395
W2021A-72	9J17M3Ea	MXBCM9Y3HT	2,560	W2023A-72	9J27M1Ea	MXBCM9Y3HT	2,365
W2021A-73	9J17M3Ea	MXBCMB81F4	2,605	W2023A-73	9J27M1Ea	MXBCMB81F4	2,300

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<b>Yellow (W2022A) in CLJ Pro M454 and CLJ Pro MFP M479</b>				<b>Black (W2020A) in CLJ Pro M454 and CLJ Pro MFP M479</b>			
Average:		1,890		Average:		2,439	
Standard Deviation:		79		Standard Deviation:		65	
90% LCB:		1,849		90% LCB:		2,405	
<b>Cartridge#</b>	<b>Lot Code</b>	<b>Engine SerNo</b>	<b>Cartridge Yield</b>	<b>Cartridge#</b>	<b>Lot Code</b>	<b>Engine SerNo</b>	<b>Cartridge Yield</b>
W2022A-62	9J28M1Ea	VNB3K03668	2,005	W2020A-62	9J29M3Ea	VNB3K03668	2,550
W2022A-63	9J28M1Ea	VNB3S03632	1,910	W2020A-63	9J29M3Ea	VNB3S03632	2,445
W2022A-64	9J28M1Ea	MXBCM9Y3HT	1,820	W2020A-64	9J29M3Ea	MXBCM9Y3HT	2,420
W2022A-65	9J28M1Ea	MXBCMB81F4	1,945	W2020A-65	9J29M3Ea	MXBCMB81F4	2,420
W2022A-66	9K02M3Ea	VNB3K03668	1,795	W2020A-66	9K01M3Ea	VNB3K03668	2,555
W2022A-67	9K02M3Ea	VNB3S03632	1,795	W2020A-67	9K01M3Ea	VNB3S03632	2,470
W2022A-68	9K02M3Ea	MXBCM9Y3HT	1,890	W2020A-68	9K01M3Ea	MXBCM9Y3HT	2,390
W2022A-69	9K02M3Ea	MXBCMB81F4	1,760	W2020A-69	9K01M3Ea	MXBCMB81F4	2,385
W2022A-70	9K09M2Ea	VNB3K03668	1,940	W2020A-70	9J21M2Ea	VNB3K03668	2,490
W2022A-71	9K09M2Ea	VNB3S03632	1,895	W2020A-71	9J21M2Ea	VNB3S03632	2,355
W2022A-72	9K09M2Ea	MXBCM9Y3HT	1,950	W2020A-72	9J21M2Ea	MXBCM9Y3HT	2,400
W2022A-73	9K09M2Ea	MXBCMB81F4	1,970	W2020A-73	9J21M2Ea	MXBCMB81F4	2,390

<sup>1</sup> The physical cartridges for the SKU series W2020A, W2021A, W2022A, W2023A are identical to the SKU series W2030A, W2031A, W2032A, W2033A and W2040A, W2041A, W2042A, W2043A.

<sup>2</sup> In an ISO report commonly two values are listed: declared ISO yield and calculated test values. Generally, the calculated test values are higher than the declared ISO yield. Actual cartridge yields vary considerably based on content of images printed and other factors. For more information, visit [www.hp.com/go/learnaboutsupplies](http://www.hp.com/go/learnaboutsupplies).

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