

Manufacturer (trade mark):	Clover Germany	Type/Model OEM:	CLT-M809S/ELS
Lot/Part number:	DPCCLX9201ME	Toner color(s):	MAGENTA
Main application:	To be used on the relevant printers according to remanufacturer instructions		
Intended yield:	15000		
	Z8D3B1AF600008Z / Z8D3B1AF602967Z / Z8D3B1AF606114Z	Take over value of existing test protocol :	(box) Yes, from ISO19798
Test device:		Relative humidity:	41
Test climate:	23		
Deviations of the determined test conditions		Test location 2):	CLOVER SERBIA
Tester 1):	Aleksandar Kojic		
Test date:	5.1.2018		

1) If values are taken over from test protocol, the signing person is responsible, that the protocols, from which the values have been taken off, are plausible and correct.

2) Either testing place or place where the protocol is made

Test sample (A)	Type	Used for valuation	Charge/Serial number
1	27165	Yes	Sample 1
2	25116	Yes	Sample 2
3	25478	Yes	Sample 3
4	28720	Yes	Sample 4
5	27150	Yes	Sample 5
6	26100	Yes	Sample 6
7	28506	Yes	Sample 7
8	27147	Yes	Sample 8
9	26020	Yes	Sample 9

Comparing Sample (B)	Type	Used for valuation	Charge/Serial number
1	15000	Yes/no	OEM Sample/Spec
2	15000	Yes/no	OEM Sample/Spec
3	15000	Yes/no	OEM Sample/Spec
4		Yes/no	
5		Yes/no	

OEM data taken from OEMs own
ISO19752 or ISO19798 declarations of
yield

Administrative checking of health related attributes (5.2)

Is there an EG- Safety Data Sheet of the used toner? Yes/no **Yes**

If there are no information of the AMES test in the EG Safety Data Sheet

Is there a test report about the AMES test of the used toner? Yes/no **Not Aplicable**

If not: Description **All MSDSs mention Ames test**

Checking the influence of the toner module on the printer (5.3)

Is the toner leaking less than the original? Yes/no **Yes**

Is the interaction between printer and toner module acceptable? Yes/no **Yes**

If not: Description

Checking the initialization (5.4)

Is the print out acceptable right after the toner module has been inserted? Yes/no **Yes**

If not: Describe fault

Checking the yield number (5.5)

MAGENTA

	1	2	3	Average ($\bar{A}$ or $\bar{V}$)
Yield A: $(A1+A2+A3)/3=\bar{A}$	28720	27147	25116	26994
Yield V: $(V1+V2+V3)/3=\bar{V}$	15000	15000	15000	15000

Alternative:

Yield A: Result of test after ISO/IEC 19752 $\bar{A}$

Reference to the test protocol:

Test date:

Yield V: Result of test after ISO/IEC 19752 $\bar{V}$

Reference to the test protocol:

Test date:

Result: $EZ=\bar{A}/\bar{V}$

Is the expected yield (EZ) reached?

Is the expected page yield reached?

Yes	No	Not Aplicable
YES		
YES		

Checking the black print/Color reproduction (5.6.2)

Average value of the 2 areas F test print A1: 46,1

Average value of the 2 areas F comparing print V1: 50,9

Difference is not higher than $\Delta \leq 5$ for Monochrome **Not Aplicable**

Color difference $\Delta E \leq 18$ for Color **4,8**

Average value of the 2 areas F test print A2: 46,9

Average value of the 2 areas F comparing print V2: 47,2

Difference is not higher than $\Delta \leq 5$ for Monochrome **Not Aplicable**

Color difference $\Delta E \leq 18$ for Color **0,3**

Average value of the 2 areas F test print A3: 49,6

Average value of the 2 areas F comparing print V3: 47,2

Yes/No/Not Aplicable **Not Aplicable**

Yes/No/Not Aplicable **Yes**

Yes/No/Not Aplicable **Not Aplicable**

Yes/No/Not Aplicable **Yes**

Difference is not higher than $\Delta \leq 5$ for Monochrome
Color difference $\Delta E \leq 18$ for Color

Not Applicable
2,4

Yes/No/Not Applicable
Yes/No/Not Applicable

Not Applicable
Yes

Checking the fade (5.6.3)**MAGENTA**

Test print A1				
Color values 1 6 A F	1	6	A	F
after 50 pages	92,1	75,5	62,4	46,6
Color values 1 6 A F	1	6	A	F
The biggest deviation	3,9	1,5	1,5	1,4
Comparing print V1				
Color values 1 6 A F	1	6	A	F
after 50 pages	90,2	78,1	66,7	50,5
Color values 1 6 A F	1	6	A	F
The biggest deviation	2,3	1,3	1,2	1,6
Result determination				
Difference $\Delta L \leq 8$	1	6	A	F
	1,6	0,2	0,3	0,2
Difference within allowed parameters	YES	YES	YES	YES

Test print A2 MAGENTA				
Color values 1 6 A F	1	6	A	F
after 50 pages	90,2	73,7	58,3	46,3
Color values 1 6 A F	1	6	A	F
The biggest deviation	1,5	1,9	4,4	1,7
Comparing print V2				
Color values 1 6 A F	1	6	A	F
after 50 pages	92	75,8	62,4	46,3
Color values 1 6 A F	1	6	A	F
The biggest deviation	0,9	1,8	3,4	1,8
Result determination				
Difference $\Delta L \leq 8$	1	6	A	F
	1	0,1	1	0,1
Difference within allowed parameters	YES	YES	YES	YES

Test print A3 MAGENTA				
Color values 1 6 A F	1	6	A	F
after 50 pages	90	73,6	60,9	47,5
Color values 1 6 A F	1	6	A	F
The biggest deviation	2	5,5	7,4	4,1
Comparing print V2				
Color values 1 6 A F	1	6	A	F
after 50 pages	90,7	76,1	62,1	46,5
Color values 1 6 A F	1	6	A	F
The biggest deviation	1,7	1,3	3,3	1,6
Result determination				
Difference $\Delta L \leq 8$	1	6	A	F
	0,3	4,2	4,1	2,5
Difference within allowed parameters	YES	YES	YES	YES

Checking toner adhesion

Test process: visual (tape method):

Is the resistance in between the acceptable parameters? Yes
If not: Describe deviation

Checking the grey page/color uniformity (5.6.5)

Are the color differences in between the acceptable parameters (pattern B2-B5) $\Delta E \leq 8$? Yes

If not: Describe deviation

Checking the background (5.6.6)

Is the background smudge between the acceptable parameters (pattern B1-B5)? Yes

If not: Describe deviation

Checking the ghosting (5.6.7)

Is the repeating of the back rectangles in between the acceptable parameters (pattern B2-B5)? Yes

If not: Describe deviation

Checking toner miscibility (5.6.8)

Is the toner miscibility given? Yes

If not: Describe deviation

OVERALL RESULT: Passed