

Manufacturer (trade mark):	Clover Germany	Type/Model OEM:	MLT-D204E
Lot/Part number:	0	Toner color(s):	Monochrome
Main application:	To be used on the relevant printers according to remanufacturer instructions		
Intended yield:	10000		
	ZDG6BJCFC00024V / ZDG6BJCFC0001SF / ZDG6B8GD4E00HMA	Take over value of existing test protocol :	(box) Yes, from ISO19752
Test device:			
Test climate:		Relative humidity:	41
Temperature:	22		
Deviations of the determined test conditions		Test location 2):	TRS EUROPE
Tester 1):	Aleksandar Kojic		
Test date:	15.5.2015		

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	12863	Yes	Sample 1
2	12052	Yes	Sample 2
3	11821	Yes We use for A1 the	Sample 3
4	12421	Yes MAX, for A2 the	Sample 4
5	12110	Yes MEDIAN and for A3 the	Sample 5
6	12012	Yes MIN value of the list at	Sample 6
7	11936	Yes left	Sample 7
8	12514	Yes	Sample 8
9	12425	Yes	Sample 9
Comparing Sample (B)	Type	Used for valuation	Charge/Serial number
1	10000	Yes/no Yes	OEM Sample/Spec
2	10000	Yes/no Yes	OEM Sample/Spec
3	10000	Yes/no Yes	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)

Monochrome

	1	2	3	Average ($\bar{A}$ or $\bar{V}$)
Yield A: $(A1+A2+A3)/3=\bar{A}$	12863	12110	11821	12265
Yield V: $(V1+V2+V3)/3=\bar{V}$	10000	10000	10000	10000

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: 24,8

Average value of the 2 areas F comparing print V1: 23

Difference is not higher than $\Delta \leq 5$ for Monochrome 1,8

Color difference $\Delta E \leq 18$ for Color Not applicable

Average value of the 2 areas F test print A2: 24,6

Average value of the 2 areas F comparing print V2: 23,2

Difference is not higher than $\Delta \leq 5$ for Monochrome 1,4

Color difference $\Delta E \leq 18$ for Color Not applicable

Average value of the 2 areas F test print A3: 24,8

Average value of the 2 areas F comparing print V3: 22,7

Yes/No/Not Aplicable Yes

Yes/No/Not Aplicable Not Aplicable

Yes/No/Not Aplicable Yes

Yes/No/Not Aplicable Not Aplicable

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

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

Checking the fade (5.6.3)**Monochrome**

Test print A1				
Color values 1 6 A F	1	6	A	F
after 50 pages	90,6	72,9	54,3	23,9
Color values 1 6 A F	1	6	A	F
The biggest deviation	1,7	5,5	7,2	1,7
Comparing print V1				
Color values 1 6 A F	1	6	A	F
after 50 pages	91,1	73,7	55,5	21,8
Color values 1 6 A F	1	6	A	F
The biggest deviation	2,4	3,4	3,8	2,4
Result determination				
Difference $\Delta L \leq 8$	1	6	A	F
	0,7	2,1	3,4	0,7
Difference within allowed parameters	YES	YES	YES	YES

Test print A2 Monochrome

Color values 1 6 A F	1	6	A	F
after 50 pages	89,5	74,2	54,7	24,1
Color values 1 6 A F	1	6	A	F
The biggest deviation	1,6	6,6	5,8	0,7
Comparing print V2				
Color values 1 6 A F	1	6	A	F
after 50 pages	90,7	74,2	56,6	21,9
Color values 1 6 A F	1	6	A	F
The biggest deviation	1,3	3,3	5,3	2,8
Result determination				
Difference $\Delta L \leq 8$	1	6	A	F
	0	3,3	0,5	2,1
Difference within allowed parameters	YES	YES	YES	YES

Test print A3 Monochrome

Color values 1 6 A F	1	6	A	F
after 50 pages	88,7	67,7	45,6	24,4
Color values 1 6 A F	1	6	A	F
The biggest deviation	0,6	1,7	0,5	0,6
Comparing print V2				
Color values 1 6 A F	1	6	A	F
after 50 pages	88,8	68,8	48	22,1
Color values 1 6 A F	1	6	A	F
The biggest deviation	1,3	2,6	1,5	1,3
Result determination				
Difference $\Delta L \leq 8$	1	6	A	F
	0,7	0,9	1	0,7
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 differences in brightness between the acceptable parameters (pattern B2) $\Delta L \leq 5$? **Yes**
 If not: Describe deviation

Checking the background (5.6.6)

Is the background smudge between the acceptable parameters (pattern B1)? **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)? **Yes**
 If not: Describe deviation

Checking toner miscibility (5.6.8)

Is the toner miscibility given? **N/A**
 If not: Describe deviation

OVERALL RESULT: Passed