

|                                              |                                                                              |                                             |                          |
|----------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------|--------------------------|
| Manufacturer (trade mark):                   | <b>Clover Germany</b>                                                        | Type/Model OEM:                             | 2660B002AA               |
| Lot/Part number:                             | <b>DPC718ME</b>                                                              | Toner color(s):                             | <b>MAGENTA</b>           |
| Main application:                            | To be used on the relevant printers according to remanufacturer instructions |                                             |                          |
| Intended yield:                              | 2900                                                                         |                                             |                          |
|                                              | TWW06565 /                                                                   |                                             |                          |
|                                              | TWW06482 /                                                                   |                                             |                          |
| Test device:                                 | TWW06374                                                                     | Take over value of existing test protocol : | (box) Yes, from ISO19798 |
| Test climate:                                |                                                                              |                                             |                          |
| Temperature:                                 | 24                                                                           | Relative humidity:                          | 48                       |
| Deviations of the determined test conditions |                                                                              |                                             |                          |
| Tester 1):                                   | Aleksandar Kojic                                                             | Test location 2):                           | <b>CLOVER SERBIA</b>     |
| Test date:                                   | <b>03.10.2018</b>                                                            |                                             |                          |

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                    | 3724 | Yes                          | Sample 1             |
| 2                    | 3482 | Yes                          | Sample 2             |
| 3                    | 3526 | Yes We use for A1 the        | Sample 3             |
| 4                    | 3690 | Yes MAX, for A2 the          | Sample 4             |
| 5                    | 3607 | Yes MEDIAN and for A3 the    | Sample 5             |
| 6                    | 3509 | Yes MIN value of the list at | Sample 6             |
| 7                    | 3651 | Yes left                     | Sample 7             |
| 8                    | 3385 | Yes                          | Sample 8             |
| 9                    | 3420 | Yes                          | Sample 9             |
| Comparing Sample (B) | Type | Used for valuation           | Charge/Serial number |
| 1                    | 2900 | Yes/no Yes                   | OEM Sample/Spec      |
| 2                    | 2900 | Yes/no Yes                   | OEM Sample/Spec      |
| 3                    | 2900 | 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)****MAGENTA**

|                                 | 1    | 2    | 3    | Average ( $\bar{A}$ or $\bar{V}$ ) |
|---------------------------------|------|------|------|------------------------------------|
| Yield A: $(A1+A2+A3)/3=\bar{A}$ | 3724 | 3526 | 3385 | 3545                               |
| Yield V: $(V1+V2+V3)/3=\bar{V}$ | 2900 | 2900 | 2900 | 2900                               |

**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: 49.4

Average value of the 2 areas F comparing print V1: 50.4

Difference is not higher than  $\Delta \leq 5$  for Monochrome Not AplicableColor difference  $\Delta E \leq 18$  for Color 1

Average value of the 2 areas F test print A2: 49.1

Average value of the 2 areas F comparing print V2: 49.2

Difference is not higher than  $\Delta \leq 5$  for Monochrome Not AplicableColor difference  $\Delta E \leq 18$  for Color 0.1

Average value of the 2 areas F test print A3: 47.5

Average value of the 2 areas F comparing print V3: 49.3

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  
1.8

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

Not Applicable  
Yes

### Checking the fade (5.6.3)

#### MAGENTA

|                                      |      |      |      |      |
|--------------------------------------|------|------|------|------|
| <b>Test print A1</b>                 |      |      |      |      |
| Color values 1 6 A F                 | 1    | 6    | A    | F    |
| after 50 pages                       | 91.6 | 78.2 | 66.7 | 49.8 |
| Color values 1 6 A F                 | 1    | 6    | A    | F    |
| The biggest deviation                | 2    | 1.7  | 1.4  | 1.1  |
| <b>Comparing print V1</b>            |      |      |      |      |
| Color values 1 6 A F                 | 1    | 6    | A    | F    |
| after 50 pages                       | 91.8 | 79.1 | 68.1 | 50.6 |
| Color values 1 6 A F                 | 1    | 6    | A    | F    |
| The biggest deviation                | 1.3  | 0.7  | 2.6  | 0.5  |
| <b>Result determination</b>          |      |      |      |      |
| Difference $\Delta L \leq 8$         | 1    | 6    | A    | F    |
|                                      | 0.7  | 1    | 1.2  | 0.6  |
| Difference within allowed parameters | YES  | YES  | YES  | YES  |

|                                      |      |      |      |      |
|--------------------------------------|------|------|------|------|
| <b>Test print A2 MAGENTA</b>         |      |      |      |      |
| Color values 1 6 A F                 | 1    | 6    | A    | F    |
| after 50 pages                       | 90.7 | 78   | 65.9 | 49.2 |
| Color values 1 6 A F                 | 1    | 6    | A    | F    |
| The biggest deviation                | 1.1  | 0.7  | 2.6  | 0.5  |
| <b>Comparing print V2</b>            |      |      |      |      |
| Color values 1 6 A F                 | 1    | 6    | A    | F    |
| after 50 pages                       | 92   | 77.9 | 67.3 | 50   |
| Color values 1 6 A F                 | 1    | 6    | A    | F    |
| The biggest deviation                | 1    | 1.6  | 2.4  | 1.5  |
| <b>Result determination</b>          |      |      |      |      |
| Difference $\Delta L \leq 8$         | 1    | 6    | A    | F    |
|                                      | 0    | 0.9  | 0.2  | 1    |
| Difference within allowed parameters | YES  | YES  | YES  | YES  |

|                                      |      |      |      |      |
|--------------------------------------|------|------|------|------|
| <b>Test print A3 MAGENTA</b>         |      |      |      |      |
| Color values 1 6 A F                 | 1    | 6    | A    | F    |
| after 50 pages                       | 90.8 | 74.5 | 68.4 | 49.2 |
| Color values 1 6 A F                 | 1    | 6    | A    | F    |
| The biggest deviation                | 0.9  | 4.7  | 5    | 2.8  |
| <b>Comparing print V2</b>            |      |      |      |      |
| Color values 1 6 A F                 | 1    | 6    | A    | F    |
| after 50 pages                       | 90   | 78.2 | 66.7 | 50.5 |
| Color values 1 6 A F                 | 1    | 6    | A    | F    |
| The biggest deviation                | 1.2  | 2    | 1.7  | 1.8  |
| <b>Result determination</b>          |      |      |      |      |
| Difference $\Delta L \leq 8$         | 1    | 6    | A    | F    |
|                                      | 0.3  | 2.7  | 3.3  | 1    |
| 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? N/A  
If not: Describe deviation

**OVERALL RESULT: Passed**