

ISO/IEC 24734 Printing Productivity Report: Office Category  
 FDIS ISO/IEC 29183 Copying Productivity Report

Full Detailed Test Reports  
 HP Envy 5640

Printing device and test settings

|                          |  |             |
|--------------------------|--|-------------|
| Test Start Date and Time | 01/14/15   | 12:00:00 AM |
| Tester                   | Monica Hoebet  |             |
| Machine product number   | e8350  |             |
| Machine name/model       | HP Envy 5640   |             |
| F.W. Version             | NLM2CN150CR (VR2) for print, NLM2CN1531BR (VR3) for copy |             |
| Colour or B&W            | Color  |             |
| Temperature and humidity | Ambient  |             |
| Voltage                  | 120V   |             |
| Test End Date and Time   | 01/29/15   | 12:00:00 AM |

|                    | Item                    | Value                                     |
|--------------------|-------------------------|---|
| Modes and Settings | Driver version          | Win 7                                     |
|                    | Media / Quality Setting | Default                                   |
|                    | Simplex B&W settings    | Black Ink Only                            |
|                    | Duplex B&W settings     | Black Ink Only                            |
| Paper Path         | Setting N set count     | Application                               |
|                    | Collating function      | Off                                       |
|                    | Paper sending direction | Default                                   |
|                    | Paper size setting      | Default                                   |
|                    | Paper feeding           | Standard cassette                         |
|                    | Paper exit              | Standard exit tray                        |
|                    | Output orientation      | Face UP                                   |
|                    | Duplexing ADF Unit      | No  |
|                    | Duplexing Print Unit    | Yes                                       |
|                    | Paper Manufacturer      | Hewlett-Packard                           |
| Paper              | Weight                  | 80gsm                                     |
|                    | Size                    | A4  |
|                    | Paper type/name         | HP Office for print, HP Everyday for Copy |

Summary Reports

| ISO/IEC 24734 | Color        | FSOT (seconds) | ESAT (ipm) |
|---------------|--------------|----------------|------------|
| Color         | Single Sided | 46             | 8          |
|               | Two Sided    | 75             | 3          |
| B&W           | Single Sided | 34             | 12         |
|               | Two Sided    | 67             | 4          |

Notes: 1) ipm = Images Per Minute and is equivalent to ppm or Pages Per Minute  
 2) For Simplex B&W results, Black Ink Onl  
 3) For Duplex B&W results, Black Ink Onl  
 4) Scale content for A4 pr 8.5x11 paper sizes set to off for Word and Excel

| FDIS ISO/IEC 29183 | Color | FCOT (seconds) | sESAT (ipm) |
|--------------------|-------|----------------|-------------|
| Color              | B&W   | 27             | 5           |
|                    | B&W   | 15             | 10          |

Notes: 1) ipm = Images Per Minute and is equivalent to ppm or Pages Per Minute  
 2) Copy speed is limited to a maximum of 5 ppm for Belgium

Full Reports

| ISO/IEC 24734 | Office Category | FSOT (sec)     | EFTP (ipm) |                   |                  | sESAT (ipm) |       |
|---------------|-----------------|----------------|------------|-------------------|------------------|-------------|-------|
|               |                 |                | 1 Set      | 1 Set+ 30 seconds | 1 Set+ 4 Minutes |             |       |
| Color         | Single Sided    | PDF (# sets)   | 47.38      | 5.06              | 6.31             | 6.85        | 7.13  |
|               |                 | Word (# sets)  | 30.43      |                   | 3                | 9           | 12.38 |
|               |                 | Excel (# sets) | 58.29      |                   |                  |             | 6.52  |
|               | Two Sided       | Average        | 46         |                   |                  |             | 8     |
|               |                 | PDF (# sets)   | 86.59      | 2.77              | 2.89             |             | 3.11  |
|               |                 | Word (# sets)  | 56.99      |                   |                  |             | 4.88  |
| B&W           | Single Sided    | Excel (# sets) | 80.74      |                   |                  |             | 3.94  |
|               |                 | Average        | 75         |                   |                  |             | 3     |
|               |                 | PDF (# sets)   | 32.32      | 7.42              | 9.25             | 10.73       | 11.20 |
|               | Two Sided       | Word (# sets)  | 26.34      |                   |                  |             | 14.75 |
|               |                 | Excel (# sets) | 43.17      |                   |                  |             | 10.88 |
|               |                 | Average        | 34         |                   |                  |             | 12    |
| B&W           | Single Sided    | PDF (# sets)   | 74.24      | 3.23              | 3.45             |             | 3.71  |
|               |                 | Word (# sets)  | 53.72      |                   |                  |             | 5.27  |
|               |                 | Excel (# sets) | 73.00      |                   |                  |             | 4.45  |
|               | Two Sided       | Average        | 67         |                   |                  |             | 4     |

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 3) For Duplex B&W results, Black Ink Onl  
 4) Scale content for A4 pr 8.5x11 paper sizes set to off for Word and Excel

| FDIS ISO/IEC 29183 | FCOT (sec)        | sEFTP (ipm)       |                     |                    | sESAT (ipm) |       |
|--------------------|-------------------|-------------------|---------------------|--------------------|-------------|-------|
|                    |                   | 1 Copy            | 1 Copy + 30 seconds | 1 Copy + 4 Minutes |             |       |
| Color              | Page 1 (# copies) | 28.88             | 2.07                | 4.37               | 4.96        | 6.00  |
|                    | Page 2 (# copies) | 28.91             | 2.07                | 5.26               |             | 7.58  |
|                    | Page 3 (# copies) | 28.75             | 2.08                | 4.15               |             | 5.64  |
|                    | Page 4 (# copies) | 28.76             | 2.08                | 2.85               |             | 3.26  |
|                    | Average           | 27                | 2                   | 4                  | 4           | 5     |
|                    | Black             | Page 1 (# copies) | 16.61               | 3.61               | 6.72        | 7.33  |
| Page 2 (# copies)  |                   | 16.29             | 3.68                | 9.18               |             | 11.82 |
| Page 3 (# copies)  |                   | 16.26             | 3.69                | 7.99               |             | 9.50  |
| Page 4 (# copies)  |                   | 16.41             | 3.65                | 6.54               |             | 7.68  |
| Average            |                   | 15                | 3                   | 7                  | 7           | 10    |

Notes: 1) ipm = Images Per Minute and is equivalent to ppm or Pages Per Minute  
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Test system parameters

|             | Item                    | Value   |
|-------------|-------------------------|---|
| Test System | Computer                | HP dv6812us Notebook PC   |
|             | Processor               | AMD Turion TL-60 2.0 GHz, 1 MB L2 cache   |
|             | System Chip Set         | Nvidia/Southbridge: Nvidia MCP7M  |
|             | System Board            | Standard system device, default system BIOS                                     |
|             | System Memory           | 3GB PC2-4300 DDR2 SDRAM   |
|             | Hard Drive subsystem    | Western Digital WD2500BEVS 250 GB   |
|             | Video subsystem         | Nvidia GeForce 7150M  |
|             | Optical Drive           | Panasonic/Hewlett-Packard, DVD+RW and CD-RW                                     |
|             | IO subsystem            | Built in  |
|             | USB subsystem           | USB 2.0   |
| Software    | Printer Connection      | USB 2.0   |
|             | Operating System        | Microsoft Windows 7 Professional 64-bit SP1                                     |
|             | Printing Applications   | Microsoft Office Word 2010 32-bit SP1<br>Microsoft Office Excel 2010 32-bit SP1 |
|             | Test Files and location | Office Category files, hard drive   |