Department for Environment Food and Rural Affairs Inkjet Multi Functional Devices (MFDs) standards



| Date | Version | Change |
|----------|---------|---|
| May 2008 | 1.0 | Introduction of specifications for MFDs |
| May 2009 | 2.0 | Complete revision, including the introduction of Class Leader specifications and Award Criteria |

| IMPACT AREA | MANDATORY |
|---|--|
| Energy performance requirements | The product meets the energy performance requirements of ENERGY STAR |
| Promoting more efficient practice: energy save function | Information about the energy save function is provided with the product |
| Parts: facilitating segregation and recovery | Parts that have to be treated separately are easily separable |
| Parts: facilitating segregation and recovery | Plastic parts >100 g consist of one material or of easily separable materials |
| Parts: facilitating segregation and recovery | Plastic parts >25 g have material codes according to ISO 11469 referring to ISO 1043 |
| Parts: facilitating segregation and recovery | Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools |
| Parts: facilitating segregation and recovery | Labels are easily separable. (This requirement does not apply to safety/regulatory labels) |
| Chemicals in components | All cover/housing plastic parts >25 g are halogen free |
| Chemicals in components | Plastic parts >25 g are free from flame retardant substances/preparations above 0.1% classified as R45/46, R50/51/53 and R60/61 (67/548/EEC) |
| Chemicals in components | Light sources are free from mercury |

| Operational noise emissions | During printing operation the 'Declared A-weighted Sound Level' (LWAd) according to ISO 9296, measured in accordance with ISO 7779, shall not exceed the limits set by the following formula: LWAd: 0.035 x ipm + 5.9 (B) Where ipm = images per minute. The devices shall additionally not exceed 7.5 (B) LWAd except for devices with an ipm >71 |
|--|--|
| Chemicals in components | A Material Safety Data Sheet (MSDS) is available for the ink/toner preparation, even if not legally required. |
| Enabling use of recycled paper | Paper containing recycled fibres that meets the requirements of EN12281 can be used. |
| Promoting more efficient practice: automatic duplexing | Products with an imaging speed of ≥45ipm shall include automatic duplexing as a standard feature at the time of purchase. Automatic duplexing must be offered as a standard feature or optional accessory at the time of purchase for products with an imaging speed of 25 – 44 ipm. |
| Packaging | Product plastic packaging does not contain chlorine |
| Documentation | User and product documentation do not contain chlorine bleached paper |
| Suppliers: facilitating segregation and recovery | Suppliers must provide a free take back system for imaging product consumables (except paper) |
| | |

| IMPACT AREA | BEST PRACTICE |
|---|--------------------------------|
| Energy performance requirements | Same as the mandatory standard |
| Promoting more efficient practice: energy save function | Same as the mandatory standard |
| Parts: facilitating segregation and recovery | Same as the mandatory standard |
| Parts: facilitating segregation and recovery | Same as the mandatory standard |
| Parts: facilitating segregation and recovery | Same as the mandatory standard |
| Parts: facilitating segregation and recovery | Same as the mandatory standard |
| Parts: facilitating segregation and recovery | Same as the mandatory standard |
| Chemicals in components | Same as the mandatory standard |
| Chemicals in components | Same as the mandatory standard |

| Chemicals in components | Same as the mandatory standard |
|--|--------------------------------|
| Operational noise emissions | Same as the mandatory standard |
| Chemicals in components | Same as the mandatory standard |
| Enabling use of recycled paper | Same as the mandatory standard |
| Promoting more efficient practice: automatic duplexing | Same as the mandatory standard |
| Packaging | Same as the mandatory standard |
| Documentation | Same as the mandatory standard |
| Suppliers: facilitating segregation and recovery | Same as the mandatory standard |

| IMPACT AREA | CLASS LEADER |
|---|--------------------------------|
| Energy performance requirements | Same as the mandatory standard |
| Promoting more efficient practice: energy save function | Same as the mandatory standard |
| Parts: facilitating segregation and recovery | Same as the mandatory standard |
| Parts: facilitating segregation and recovery | Same as the mandatory standard |
| Parts: facilitating segregation and recovery | Same as the mandatory standard |
| Parts: facilitating segregation and recovery | Same as the mandatory standard |
| Parts: facilitating segregation and recovery | Same as the mandatory standard |
| Chemicals in components | Same as the mandatory standard |
| Chemicals in components | Same as the mandatory standard |
| Chemicals in components | Same as the mandatory standard |
| Operational noise emissions | Same as the mandatory standard |
| Chemicals in components | Same as the mandatory standard |
| Enabling use of recycled paper | Same as the mandatory standard |

| Promoting more efficient practice: automatic duplexing | Same as the mandatory standard |
|--|--------------------------------|
| Packaging | Same as the mandatory standard |
| Documentation | Same as the mandatory standard |
| Suppliers: facilitating segregation and recovery | Same as the mandatory standard |

Products awarded the ENERGY STAR label will be deemed to comply with Energy Star criteria. Appropriate means of proof for all Inkjet MFDs standards include a technical dossier of the manufacturer or a test report from a recognised body demonstrating that the criteria are met

See also

• EU-US ENERGY STAR

See the European Commission's announcement that Energy Star criteria be used in central government procurement

Inkjet multi functional devices (MFDS) award criteria

| IMPACT AREA | MANDATORY |
|--|--|
| Parts: facilitating segregation and recovery | Plastic materials in covers/housing have surface coatings that are compatible with recycling or reuse, including metal coatings. |
| Parts: facilitating segregation and recovery | Spare parts are available after end of production for 5 years |
| Chemicals in components | Electrical cable insulation material of power cables are halogen free (including PVC) |
| Chemicals in components | Electrical cable insulation material of signal cables are halogen free (including PVC) |
| Chemicals in components | All printed circuit boards (without components) >25 g are halogen free |
| Batteries | Batteries meet the requirements of the EU Flower Eco-Label |
| Chemical Emissions | The product meets the chemical emission requirements of Blue Angel, Nordic Swan or TCO |

| IMPACT AREA | BEST PRACTICE |
|--|--------------------------------|
| Parts: facilitating segregation and recovery | Same as the mandatory standard |
| Parts: facilitating segregation and recovery | Same as the mandatory standard |
| Chemicals in components | Same as the mandatory standard |
| Chemicals in components | Same as the mandatory standard |

| Chemicals in components | Same as the mandatory standard |
|-------------------------|--------------------------------|
| Batteries | Same as the mandatory standard |
| Chemical Emissions | Same as the mandatory standard |

| IMPACT AREA | CLASS LEADER |
|--|--------------|
| Parts: facilitating segregation and recovery | N/A |
| Parts: facilitating segregation and recovery | N/A |
| Chemicals in components | N/A |
| Chemicals in components | N/A |
| Chemicals in components | N/A |
| Batteries | N/A |
| Chemical Emissions | N/A |

Appropriate means of proof for all Inkjet MFDs award criteria include a technical dossier of the manufacturer or a test report from a recognised body demonstrating that the criteria are met.