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## Procedure for environmental requirements for products: Hardware

For each product group, a number of absolute requirements and a number of recommended requirements have been set up.

The absolute requirements must be met when purchasing products, and the supplier must sign a declaration (as part of the contract, if required) to the effect that such requirements have been met. Some of the absolute requirements are statutory EU requirements; however, they are specified in the contract as they are typically problem areas.

The recommended requirements are recommendations that are weighted positively in the choice between competing products.

### **Product group:** Copiers and multifunction machines

#### **Absolute requirements**

- Copiers and multifunction machines must be labeled with Energy Star.
- Plastic components must not contain halogenated flame retardants. Exemptions from the requirement are:
  - Plastic parts weighing less than 25g
  - Casing parts that are demonstrably reused and marked in accordance with DIN/ISO 11469:2000.
  - Special plastic components installed in direct vicinity of heating and fusing units.
  - Process-induced technologically unavoidable impurities. The maximum allowable concentrations are 0.1 w-% in homogenous material.
  - Fluoroorganic additives which are used to improve the physical properties of plastic, provided they are not present in concentrations greater than 0.5 weight-%.
  - Fluorinated plastics like for example PTFE.
- Copiers, multifunction machines and their components (even exemptions as given above) must not contain the brominated flame retardants PBB (polybrominated biphenyls), PBDE (polybrominated diphenyl ethers), decaBDE or chlorinated paraffins.
- Special requirements as to products with combined toner cartridges:
  - Products with combined toner cartridge may be accepted if the cartridge is not designed to prevent reuse.
  - Products must accept remanufactured toner cartridges.
  - In order to ensure that the toner cartridges are returned for reuse, a return system must be offered for recycling combined toner cartridges and information to user about the return system must be provided.
- Printers must have a duplex capability (two-sided printing).
- Subassemblies (casing parts whose entire weight exceeds 10 g) made of mutually incompatible materials must be separable or connected by separation aids or all materials used must be easily separable by means of recycling technology.

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**Recommended requirements**

Products meeting the following requirements will be preferred:

- Subassemblies (casing parts whose entire weight exceeds 10 g) made of mutually incompatible materials must be separable or connected by separation aids or all materials used must be easily separable by means of recycling technology.
- At least one part heavier than 25 gram must contain reused plastic or post-consumer and pre-consumer recycled plastic.
- Products labelled with the official Danish eco-label (the EU Ecolabel or the Nordic Ecolabel).
- Products labelled with the Japanese eco-label Eco Mark.
- Products labelled with the German eco-label Blauer Engel.
- Products labelled with the Swedish TCO label.

**Product group:** Printers and fax machines

**Absolute requirements**

- Products labelled with Energy Star.
- Plastic components must not contain halogenated flame retardants. Exemptions from the requirement are:
  - Plastic parts weighing less than 25g
  - Casing parts that are demonstrably reused and marked in accordance with DIN/ISO 11469:2000.
  - Special plastic components installed in direct vicinity of heating and fusing units.
  - Process-induced technologically unavoidable impurities. The maximum allowable concentrations are 0.1 w-% in homogenous material.
  - Fluororganic additives which are used to improve the physical properties of plastic, provided they are not present in concentrations greater than 0.5 weight-%.
  - Fluorinated plastics like for example PTFE.
- Printers, fax machines and their components (even exemptions as given above) must not contain the brominated flame retardants PBB (polybrominated biphenyls), PBDE (polybrominated diphenyl ethers), decaBDE or chlorinated paraffins.
- Printers must have a duplex capability (two-sided printing).
- Subassemblies (casing parts whose entire weight exceeds 10 g) made of mutually incompatible materials must be separable or connected by separation aids or all materials used must be easily separable by means of recycling technology.
- Special requirements as to products with combined toner cartridges:
  - Products with combined toner cartridge may be accepted if the cartridge is not designed to prevent reuse.
  - Products must accept remanufactured toner cartridges.
  - In order to ensure that the toner cartridges are returned for reuse, a return system must be offered for recycling combined toner cartridges and information to user about the return system must be provided.

**Recommended requirements**

Products meeting the following requirements will be preferred:

- Products labelled with the official Danish eco-label (the EU Ecolabel or the Nordic Ecolabel).

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- Products labelled with the Japanese eco-label Eco Mark.
- Products labelled with the German eco-label Blauer Engel.
- Products labelled with the Swedish TCO label.

**Product group:** Computers and monitors

**Absolute requirements**

- Computers and monitors must be labelled with Energy Star.
- Plastic components must not contain halogenated flame retardants. Exempted from the requirement on halogenated organic compounds are:
  - Printed circuit boards
  - Plastic parts lighter than 25 g.
  - Plastic parts that are demonstrably reused and marked in accordance with ISO 11469 and ISO 1043, sections 1 to 4.
  - Fluoroorganic additives which are used to improve the physical properties of plastic, provided they are not present in concentrations greater than 0.5% by weight.
  - Fluorinated plastics such as PTFE
- Computers, monitors and their plastic parts (even the exempted as listed above) must not contain the brominated flame retardants PBB (polybrominated biphenyls), PBDE (polybrominated diphenyl ethers), decaBDE or chlorinated paraffins.
- Computers and displays must be designed in such a way that disassembly is possible. It must be possible to separate the substances, preparations and components listed in Annex II of the WEEE Directive (2002/96/EC).

**Recommended requirements**

Products meeting the following requirements will be preferred:

- Computers and monitors labelled with the Danish official eco-label (the EU Ecolabel or the Nordic Ecolabel).
- Computers and monitors labelled with the Swedish TCO label or the German Blauer Engel.