



EPEAT: LIST OF CRITERIA

Computers and Displays (v 2018)

IEEE 1680.1:2018 CRITERIA

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- 4.2 Materials selection
- 4.3 Design for end of life
- 4.4 Product Longevity/lifecycle extension
- 4.5 Energy conservation
- 4.6 End-of-life management
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IEEE 1680.3 CRITERIA

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Product Ratings: EPEAT Bronze, Silver and Gold

The EPEAT system was developed to recognize three levels of environmental performance: EPEAT Bronze, Silver and Gold. This multi-tier rating recognizes the leading products and also provides Manufacturers with increased recognition and incentive for achieving higher levels of performance.

The product rating (B/S/G) is determined as follows:

- EPEAT Bronze rated products meet all the Required criteria
- EPEAT Silver rated products meet all the Required criteria and 50% of the Optional criteria
- EPEAT Gold rated products meet all the Required criteria plus 75% of the Optional criteria



PCs & DISPLAYS IEEE 1680.1:2018 CRITERIA

4.1 Substance Management

Required Criteria

4.1.1.1 (Required) – Conformance with European Union RoHS Directive substance restrictions

4.1.3.1 (Required) – Elimination of intentionally added mercury in light sources

4.1.5.1 (Required) – Reduction of bromine and chlorine content in plastic parts > 25g

4.1.7.1 (Required) – Compliance with provisions of EU Battery Directive

Optional Criteria

4.1.2.1 (Optional) – Restriction on the use of cadmium

4.1.4.1 (Optional) – Restriction of the use of beryllium

4.1.5.2 (Optional) – Further reduction of bromine and chlorine content of plastic materials

4.1.6.1 (Optional) – Avoidance or elimination of substances on EU REACH Annex XIV (authorization list)

4.1.6.2 (Optional) – Reduction of substances on the EU REACH Candidate List of SVHCs

4.1.8.1 (Optional) – Chemical assessment and selection

4.1.9.1 (Optional) – IEC 62474 declarable substances

4.1.9.2 (Optional) – Requesting substance inventory

4.1.9.3 (Optional) – Acquiring substance inventory

4.1.10.1 (Optional) – Reduce fluorinated gas emissions from flat panel display manufacturing

4.1.10.2 (Optional) – Reduce fluorinated greenhouse gas emissions from semiconductor production

4.2 Materials selection

Required Criteria

4.2.1.1 (Required) – Minimum post-consumer recycled plastic, ITE-derived post-consumer recycled plastic or bio-based plastic content

Optional Criteria

4.2.1.2 (Optional) – Higher post-consumer recycled plastic, ITE-derived post-consumer recycled plastic, or bio-based plastic content



4.2.1.3 (Optional) – ITE derived post-consumer recycled plastic content

4.3 Design for end of life

Required Criteria

4.3.1.1 (Required) – Identification of materials and components requiring selective treatment

4.3.2.1 (Required) – Plastic parts compatible with recycling

4.3.2.2 (Required) – Plastic parts separable for recycling

4.4 Product Longevity/lifecycle extension

Required Criteria

4.4.1.1 (Required) – Service support

4.4.2.1 (Required) – Removal of external enclosure

4.4.2.3 (Required) – Spare parts

4.4.2.4 (Required) – Battery replacement and information

Optional Criteria

4.4.1.2 (Optional) – Long life rechargeable battery

4.4.2.2 (Optional) – Publicly available service information

4.4.2.5 (Optional) – Product upgradeability and reparability

4.4.2.6 (Optional) – Removal of lithium ion batteries

4.5 Energy conservation

Required Criteria

4.5.1.1 (Required) – Conformance to current ENERGY STAR® program requirements

4.5.1.2 (Required) – Lowest power mode limit

Optional Criteria

4.5.1.3 (Optional) – Energy efficiency for internal power supplies

4.5.1.4 (Optional) – Energy efficiency for external power supplies exceeding International External Power Supply Efficiency Level VI



4.5.1.5 (Optional) – Product energy consumption less than the ENERGY STAR® Maximum energy limit

4.6 End-of-life management

Required Criteria

4.6.1.1 (Required) – Provision of product take-back services

4.6.2.1 (Required) – Provision of a removable rechargeable battery take-back program

4.6.3.1 (Required) – End-of-life processing

4.7 Packaging

Required Criteria

4.7.1.1 (Required) – Elimination of intentionally added heavy metals in packaging

4.7.1.2 (Required) – Elimination of elemental chlorine as a bleaching agent in packaging material

4.7.2.1 (Required) – Separable packaging material

4.7.2.2 (Required) – Plastics marked in packaging materials

4.7.3.1 (Required) – Recycled content in wood-based fiber packaging

Optional Criteria

4.7.3.2 (Optional) – Packaging composed of recycled, and/or bio-based, and/or sustainably forested content

4.7.4.1 (Optional) – Offering of a bulk packaging option

4.8 Life cycle assessment and carbon footprint

Optional Criteria

4.8.1.1 (Optional) – Product life cycle assessment and public disclosure of analysis

4.8.1.2 (Optional) – Product specific greenhouse gas emissions – product carbon footprint

4.8.2.1 (Optional) – Corporate carbon footprint

4.8.2.2 (Optional) – Greenhouse gas emissions from product transport



4.9 Corporate environmental performance

Required Criteria

4.9.1.1 (Required) – Third party certified environmental management system (EMS) for design and manufacturing organizations

4.9.2.1 (Required) – Corporate environmental performance reporting by manufacturer

Optional Criteria

4.9.1.2 (Optional) – Third party certified environmental management system (EMS) for supplier manufacturing facilities

4.9.2.2 (Optional) – Corporate environmental performance reporting by suppliers

4.9.3.1 (Optional) – Energy management system/energy performance improvement – manufacturers

4.9.3.2 (Optional) – Energy management system/energy performance improvement for suppliers

4.9.4.1 (Optional) – Renewable energy use by manufacturer

4.9.4.2 (Optional) – Renewable energy use by manufacturer suppliers

4.10 Corporate social responsibility

Required Criteria

4.10.2.1 (Required) – Public disclosure regarding conflict minerals in products

Optional Criteria

4.10.1.1 (Optional) – Socially responsible supplier manufacturing: Labor

4.10.1.2 (Optional) – Socially responsible manufacturing: OHS

4.10.2.2 (Optional) – Participation in an in-region program that advances responsible sourcing of conflict minerals

4.10.2.3 (Optional) – Smelter and refiner participation in OECD-aligned third party mechanisms



IMAGING EQUIPMENT - IEEE 1680.2 CRITERIA

4.1 Reduction/elimination of environmentally sensitive material

Required Criteria

- R 4.1.1.1 Compliance with provisions of European RoHS Directive
- R 4.1.3.1 Reporting on amount of mercury in light sources
- R 4.1.5.1 Compliance with provisions of EU Battery Directive
- R 4.1.6.1 Reducing BFR/CFR/PVC content of external plastic casings

Optional Criteria

- O 4.1.2.1 Further reduction of the use of EU RoHS Directive hazardous substances (cadmium)
- O 4.1.3.2 Use of non-mercury containing light sources
- O 4.1.4.1 Reduction of substances on the EU REACH Candidate List of SVHCs
- O 4.1.6.2 Eliminating or reducing BFR/CFR content of printed circuit board laminates
- O 4.1.6.3 Eliminating or reducing BFR/CFR/PVC content of product
- O 4.1.7.1 Reduce fluorinated gas emissions resulting from flat panel display manufacturing
- O 4.1.8.1 Inventory of intentionally added chemicals residing in the product

4.2 Materials selection

Required Criteria

- R 4.2.1.1 Declaration of postconsumer recycled plastic content
- R 4.2.1.2 Minimum content of postconsumer recycled plastic
- R 4.2.2.1 Declaration of biobased plastic materials content
- R 4.2.3.1 Declaration of product weight

Optional Criteria

- O 4.2.1.3 Minimum 5% to 10% content of postconsumer recycled plastic
- O 4.2.1.4 Minimum 25% content of postconsumer recycled plastic
- O 4.2.2.2 Minimum content of biobased plastic material



4.3 Design for end of life

Required Criteria

- R 4.3.1.1 Ease of disassembly of product
- R 4.3.2.1 Use of single recyclable plastic type per plastic part
- R 4.3.2.2 Restriction on materials not compatible with reuse and recycling
- R 4.3.2.3 Manual separation and marking of plastics
- R 4.3.3.1 Notification regarding the identification of both materials and components that have hazardous characteristics or special handling needs
- R 4.3.4.1 Preparation of product end-of-life characterization report
- R 4.3.4.2 Minimum reusable/recyclable rate based on requirements of EU WEEE Directive

Optional Criteria

- O 4.3.1.2 Ease of disassembly of consumer products
- O 4.3.4.3 Minimum 90% reusable/recyclable

4.4 Product longevity/life cycle extension

Required Criteria

- R 4.4.1.1 Early failure process
- R 4.4.3.1 Spare parts

Optional Criteria

- O 4.4.2.1 Product upgradeability

4.5 Energy conservation

Required Criteria

- R 4.5.1.1 ENERGY STAR®
- R 4.5.3.1 Standby power level $\leq 1W$ and disclosure

Optional Criteria



- O 4.5.2.1 Product specific greenhouse gas emissions—life-cycle assessment
- O 4.5.2.2 Product specific greenhouse gas emissions—third-party verification or making LCA assessment publicly available
- O 4.5.3.2 Auto standby capability
- O 4.5.4.1 Default to automatic duplex printing

4.6 End of life management

Required Criteria

- R 4.6.1.1 Provision of product take-back service
- R 4.6.2.1 End-of-life processing requirements

Optional Criteria

- O 4.6.1.2 Provision of take-back service for broader scope of products
- O 4.6.2.2 Certification of programs exempt from end-of-life processing requirements

4.7 Corporate performance

Required Criteria

- R 4.7.1.1 Self-declared environmental management system for design and manufacturing organizations
- R 4.7.2.1 Public disclosure of key environmental aspects

Optional Criteria

- O 4.7.1.2 Third-party certified environmental management system for design and manufacturing organizations
- O 4.7.2.2 Public disclosure of supply chain toxics
- O 4.7.3.1 Product life-cycle assessment and public disclosure of analyses

4.8 Packaging

Required Criteria

- R 4.8.1.1 Elimination of intentionally added heavy metals in packaging



R 4.8.1.2 Elimination of elemental chlorine as a bleaching agent in packaging material

R 4.8.2.1 Separable packaging materials

R 4.8.2.3 Plastics marked in packaging materials

R 4.8.3.1 Recovered content in select fiber-based packaging materials

Optional Criteria

O 4.8.2.2 Packaging 90% compostable/recyclable

O 4.8.4.1 Provision of take-back service for packaging

4.9 Consumables

Required Criteria

R 4.9.1.1 Allow use of general office paper with renewable content, recycled content, and that is chlorine free

R 4.9.2.1 Allow use of non-manufacturer cartridges and non-manufacturer containers

R 4.9.3.1 Provision of take-back and end-of-life management for cartridges and containers

R 4.9.4.1 Documentation that the cartridge or container is not designed to prevent its reuse and recycling

Optional Criteria

O 4.9.3.2 Manufacturer recycles or reuses toner material collected through its cartridge and container take-back program

O 4.9.3.3 Manufacturer recycles or reuses plastics collected through its cartridge and container take-back program

4.10 Indoor air quality

Required Criteria

R 4.10.1.1 Indoor air quality emissions requirements



TV - IEEE 1680.3 CRITERIA

4.1 Reduction of use of hazardous substances

Required Criteria

R 4.1.1.1 Compliance with provisions of European Union (EU) RoHS Directive

R 4.1.3.1 Reporting on amount of mercury in light sources

R 4.1.6.1 Compliance with provisions of EU Battery Directive

Optional Criteria

O 4.1.2.1 Further reduction of the use of EU RoHS Directive hazardous substances (cadmium)

O 4.1.3.2 Use of non-mercury containing light sources

O 4.1.4.1 Further reduction of the use of EU RoHS Directive hazardous substances (lead)

O 4.1.5.1 Reduction of substances on the EU REACH Candidate List of SVHCs

O 4.1.7.1 Reducing BFR/CFR/PVC content of external plastic casings

O 4.1.7.2 Eliminating or reducing BFR/CFR content of printed circuit board laminates

O 4.1.7.3 Eliminating or reducing BFR/CFR/PVC content of product

O 4.1.8.1 Reduce fluorinated gas emissions resulting from flat panel display manufacturing

O 4.1.9.1 Inventory of intentionally added chemicals residing in the product

4.2 Materials selection

Required Criteria

R 4.2.1.1 Declaration of postconsumer recycled plastic content

R 4.2.2.1 Declaration of biobased plastic materials content

R 4.2.3.1 Declaration of product weight

R 4.2.1.1 Declaration of postconsumer recycled plastic content

R 4.2.2.1 Declaration of biobased plastic materials content

R 4.2.3.1 Declaration of product weight



Optional Criteria

- O 4.2.1.2 Minimum 5% to 10% content of postconsumer recycled plastic
- O 4.2.1.3 Minimum 25% content of postconsumer recycled plastic
- O 4.2.2.2 Minimum content of biobased plastic material

4.3 Design for end of life

Required Criteria

- R 4.3.1.1 Ease of disassembly of product
- R 4.3.2.2 Plastic markings
- R 4.3.2.5 Restriction on materials not compatible with reuse and recycling
- R 4.3.3.1 Notification regarding and the identification of materials and components with special handling needs
- R 4.3.4.1 Minimum reusable/recyclable rate based on EU WEEE Directive

Optional Criteria

- O 4.3.2.1 One recyclable plastic type per rigid plastic part > 25g
- O 4.3.2.3 Manual separation of plastics for recycling
- O 4.3.2.4 Molded/glued-in metal eliminated or removable
- O 4.3.3.2 Marking provided on the product identifying items containing materials with special handling needs
- O 4.3.4.2 Minimum 90% reusable/recyclable
- O 4.3.4.3 Preparation of end-of-life characterization report

4.4 Product longevity/life cycle extension

Required Criteria

- R 4.4.1.1 Upgradeable firmware
- R 4.4.2.1 Service information readily available
- R 4.4.3.1 Early failure process



4.5 Energy conservation

Required Criteria

R 4.5.1.1 Compliance with current ENERGY STAR® specification

Optional Criteria

O 4.5.1.2 On Mode power performance exceeding ENERGY STAR®

O 4.5.2.1 Additional On Mode power performance exceeding ENERGY STAR®

O 4.5.2.2 Low standby power

O 4.5.2.3 Automatic switch to sleep mode

4.6 End of life management

Required Criteria

R 4.6.1.1 Provision of product take-back service

R 4.6.2.1 End-of-life processing requirements

Optional Criteria

O 4.6.1.2 Provision of take-back service for broader scope of products

O 4.6.2.2 Certification of programs exempt from end-of-life processing requirements

4.7 Corporate performance

Required Criteria

R 4.7.1.1 Self-declared environmental management system for design and manufacturing organizations

R 4.7.2.1 Public disclosure of key environmental aspects

Optional Criteria

O 4.7.1.2 Third-party certified environmental management system for design and manufacturing organizations

O 4.7.2.2 Public disclosure of supply chain toxics

O 4.7.3.1 Product life-cycle assessment and public disclosure of analyses



4.8 Packaging

Required Criteria

- R 4.8.1.1 Elimination of intentionally added heavy metals in packaging
- R 4.8.1.2 Elimination of elemental chlorine as a bleaching agent in packaging material
- R 4.8.2.1 Separable packaging materials
- R 4.8.2.3 Plastics marked in packaging materials
- R 4.8.3.1 Recovered content in select fiber-based packaging materials

Optional Criteria

- O 4.8.2.2 Packaging 90% compostable/recyclable
- O 4.8.4.1 Provision of take-back service for packaging



SERVERS - NSF ANSI 456 CRITERIA

5 Energy efficiency

Required Criteria

5.1.1 Required - ENERGY STAR

5.2.1 Required - Allowable temperature and humidity specifications

Optional Criteria

5.2.2 Optional - Liquid cooled server or air cooled servers operable at ASHRAE Class A3/A4 Temperature Ranges

5.3.1 Optional - 80 plus program

5.4.1 Optional - Active state power management enablement

5.4.2 Optional - Server inactive power state #1

5.4.3 Optional - Server inactive power state #2

5.5.1 Optional - Energy efficient supply chains

5.5.2 Optional - Reduce energy lost from power conversion

5.5.3 Optional - Logged server activity metrics

6 Management of substances

Required Criteria

6.1.1 Required - Conformance with provisions of European Union RoHS Directive

6.1.2 Required - Conformance with substance restriction requirements of the European Union Battery Directive

6.1.3 Required - Reduction of Bromine and Chlorine content of plastic parts > 25 grams

6.1.5 Required – Conformance with supply chain communication provisions of European Union REACH Regulation

Optional Criteria

6.1.4 Optional - Further reduction of Bromine and Chlorine content of plastic parts > 25 grams

6.1.6 Optional - Reduction of substances on the European Union REACH Regulation Annex XIV (authorization list) and Candidate Substances of Very High Concern



6.2.1 Optional - Record of declarable substances

6.2.2 Optional - Disclosure of declarable substances

6.2.3 Optional - Requesting full substance inventory

6.2.4 Optional - Acquiring substance inventory

6.2.5 Optional - Improving substance selection

6.2.6 Optional - Making safer substance use hazard assessments publicly available

6.3.1 Optional - Mitigation and inventory of process fluorinated greenhouse gas emissions resulting from semiconductor manufacturing

7 Preferable materials use

Required Criteria

7.1.1 Required – Declaration of postconsumer recycled plastic content

7.1.2 Required - Minimum postconsumer recycled content in external enclosures

Optional Criteria

7.1.3 Optional - Postconsumer recycled plastic content

7.1.4 Optional - Postconsumer recycled content of rare earth elements in hard drive(s) in product

7.2.1 Optional - Opt out program to reduce surplus parts

8 Product packaging

Required Criteria

8.1.1 Required—Elimination of added heavy metals in packaging

8.1.2 Required—Restriction on the use of elemental chlorine as a bleaching agent in paper-based packaging material

8.2.1 Required - Enhancing recyclability of packaging materials

8.3.1 Required - Recycled fiber content in corrugated packaging

Optional Criteria

8.1.3 Optional - Restriction on the use of chlorine compounds in processing packaging materials

8.3.2 Optional - Higher recycled fiber content in corrugated packaging



8.4.1 Optional - Elimination of individual packaging for hardware and components

8.4.2 Optional - Bulk packaging

9 Design for repair, reuse and recycling

Required Criteria

9.1.1 Required - Design for repair, reuse and recycling

9.1.2 Required - Design for plastics recycling

9.1.4 Required - Product recyclability calculation and minimum 90% recyclability rate

9.2.1 Required - Information and reporting in preparation for reuse and recycling

Optional Criteria

9.1.3 Optional - Further design for plastics recycling

9.2.2 Optional - Further information and reporting in preparation for reuse and recycling

9.2.3 Optional - Product marked to identify components and materials requiring selective treatment

9.2.4 Optional - Information and reporting on disk drive magnet type and location

9.2.5 Optional - Functionality testing software tools

10 Product longevity

Require Criteria

10.1.1 Required - Replacement components availability

11 Responsible end-of-life management

Required Criteria

11.1.1 Required – Provision of product take-back service (corporate)

11.2.1 Required - End-of-life processing requirements (corporate)

11.2.2 Required - Trans-boundary movements (corporate)

Optional Criteria

11.1.2 Optional - Manufacturer take-back service for de-installed servers



11.2.3 Optional - Publicly available record of the reuse/recycling achievement

12 Corporate responsibility

Required Criteria

12.1.1 Required - Environmental management system (EMS) (corporate)

12.4.1 Required - Manufacturer conformance with occupational health and safety performance (corporate)

12.3.1 Required - Public disclosure of use of conflict materials in products (corporate)

Optional Criteria

12.1.2 Optional - Environmental management system (EMS) certification

12.2.1 Optional - Environmental and social responsibility reporting on nine suppliers

12.2.2 Optional - Environmental and social responsibility reporting on suppliers

12.2.3 Optional - Public reporting of toxics release data

12.3.2 Optional - Sourcing from validated conflict free smelters

12.3.3 Optional - Participation in in-region conflict-free sourcing program

12.4.2 Optional - Supply chain conformance to occupational health and safety performance standards

12.4.3 Optional - Certification to social responsibility performance standard

12.5.1 Optional - Conduct life cycle assessment

12.5.2 Optional - Public disclosure of LCA results

12.5.3 Optional - Environmental impact of product transportation



MOBILE PHONES - UL 110 CRITERIA

7. Supply Chain Management of Materials

Required Criteria

R 7.1.1 Compliance with the European Union REACH Regulation

Optional Criteria

O 7.2.1 Reduction of European Union REACH Candidate SVHC Substances

O 7.3.1 Substitutions assessment

O 7.4.1 Requesting substance inventory

O 7.4.2 Receiving substance inventory

8. Sustainable Materials Use

Required Criteria

R 8.1.1 Declaration of post-consumer recycled and biobased plastics content

Optional Criteria

O 8.1.2 Post-consumer recycled plastic and biobased plastic content in the mobile phone

O 8.1.3 Post-consumer recycled plastic and biobased plastic content in accessories

9. Substances of Concern

Required Criteria

R 9.1.1 Compliance with the European Union RoHS Directive

R 9.2.1 Restrictions of extractable nickel

R 9.2.4 Restriction of cadmium and mercury in the mobile phone battery cell

Optional Criteria

O 9.2.2 Restrictions of DEHP, DBP, and BBP product

O 9.2.3 Restriction of bromine and chlorine



R 9.2.5 Restriction of substances in textile and leather

10. Energy Use Requirements

Required Criteria

R 10.1.1 Battery charger systems

R 10.1.3 External power supply energy efficiency

Optional Criteria

O 10.1.2 Reduction of energy consumption of battery charging systems

O 10.1.4 Reduced maintenance mode power

11. End of Life Management

Required Criteria

R 11.1.1 Take-back program

R 11.2.1 Primary recyclers third party certified

R 11.3.1 Battery removability/replacement by qualified repair service providers or authorized repair providers

R 11.4.1 Ease of disassembling mobile phone

R 11.5.1 Feature to erase user data from mobile phone

R 11.6.1 Repair and refurbishment

R 11.7.1 Availability of replacement parts

R 11.8.1 Notification regarding and the identification of materials and components requiring selective treatment

Optional Criteria

O 11.3.2 Battery removability/replacement instructions

O 11.3.3 Battery removability/replacement without use of tools

O 11.4.2 Further ease of disassembling mobile phone

O 11.6.2 Further repair and refurbishment



12. Packaging

Required Criteria

- R 12.2.1 Separability and labeling of plastics in packaging
- R 12.4.1 Expanded polystyrene packaging (EPS) restriction
- R 12.5.1 Recycled content in fiber packaging
- R 12.7.1 Restriction of chlorine in packaging materials
- R 12.8.1 Heavy metal restriction in packaging

Optional Criteria

- O 12.1.1 Use of recyclable fiber based packaging materials
- O 12.3.1 Use of post-consumer recycled plastic packaging
- O 12.6.1 Environmentally preferable paper/paperboard in POS packaging
- O 12.6.2 Environmentally preferable paper/paperboard for printed content
- O 12.9.1 Improve packaging efficiency

13. Corporate Sustainability

Required Criteria

- R 13.1.1 Corporate sustainability (CS) reporting

Optional Criteria

- O 13.2.1 Corporate sustainability (CS) reporting in the supply chain
- O 13.3.1 Third party assurance of corporate sustainability (CS) reporting

14. Life Cycle Assessment

Optional Criteria

- O 14.1.1 Conducting a life cycle assessment
- O 14.2.1 Product LCA third-party verification of making LCA publicly available



15. Supply Chain Impacts

Required Criteria

R 15.2.1 Final assembly facilities environmental management system

R 15.3.1 Conflict minerals public disclosure

Optional Criteria

O 15.1.1 Supplier responsibility

O 15.2.2 Supplier production facilities environmental management system

O 15.4.1 Reduce fluorinated gas emissions resulting from flat panel display manufacturing