

Nordic Ecolabelling of  
**TV and Projector**



**Version 5.5 • 20 June 2013 - 30 June 2020**



**Nordic Ecolabelling**

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This document is a translation of an original in Swedish. In case of dispute, the original document should be taken as authoritative.

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## Addresses

In 1989, the Nordic Council of Ministers decided to introduce a voluntary official ecolabel, the Nordic Ecolabel. These organisations/companies operate the Nordic ecolabelling system on behalf of their own country's government. For more information, see the websites:

### Denmark

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## What is a Nordic Ecolabelled TV or Projector?

- A Nordic Ecolabelled TV or projector: have low energy consumption
- do not contain harmful flame retardants.
- are free of mercury and contains a minimal amount of environmentally hazardous and harmful chemicals
- are easy to recycle

The Nordic Ecolabel carries out on-site inspections in product development departments and factories to ensure that production follows the Nordic Ecolabelling requirements.

## Why choose the Nordic Ecolabel?

- The manufacturer may use the Nordic Ecolabel trademark, the Swan, for marketing. The Nordic Ecolabel is a very well-known and well-reputed trademark in the Nordic region.
- The Nordic Ecolabel is a cost-effective and simple way of communicating environmental work and commitment to customers and suppliers.
- Reducing environmental impact often creates scope for lowering costs, such as by cutting the consumption of energy and reducing amounts of packaging and waste.
- Environmentally suitable operations prepare for future environmental legislation.
- Environmental issues are complex. It can take a long time and extensive resources to gain an understanding of a specific area. Nordic Ecolabelling can be seen as aid in this work.
- The Nordic Ecolabel not only covers environmental issues but also quality requirements, since the environment and quality often go hand in hand. This means that a Nordic Ecolabel licence can also be seen as a mark of quality.

## What can carry the Nordic Ecolabel?

In order to be awarded the Nordic Ecolabel the product must fall within products listed below:

- Television-sets (TV-sets)
- Projectors

Extra equipment that is delivered with the products (i.e. remote controls) shall fulfil the requirements.

All equipment with Cathod Ray Tubes (CRT)-displays are excluded.

If the development towards new technology processes in such a way that products not listed above can be considered for ecolabelling, the product definition may be changed.

In order to do this, a formal request has to be sent to any of the official bodies listed in the beginning of the document. The manufacturer or importer shall provide documentation that states that their product is considered better for the environment than similar products in their field of technology. If Nordic Ecolabelling considers it relevant, the criteria document can be extended with specific requirements for new appliances.

## How to apply

Each requirement is marked with the letter O (obligatory requirement) and a number. All requirements, except for specific requirements that do not apply to its category of products, must be fulfilled to be awarded a licence.

### Icons in the text

The text describes how the applicant shall demonstrate fulfilment of each requirement. There are also icons in the text to make this clearer. These icons are:

-  Enclose
-  The requirement checked on site

### Application

Applications are made to the national ecolabelling organisation and the application is valid for 12 months. Applications may be processed by another ecolabelling organisation according to agreement between the organisations. The applicant is notified of this. Companies located outside the Nordic countries make applications to the national ecolabelling organisation of the primary market.

The application must consist of a completed application form together with all of the documentation required to demonstrate compliance with the requirements specified in the criteria document (this is specified for each requirement). The application form must specify in which Nordic countries the products in question are to be sold and the estimated turnover from the products in each country.

Further information and assistance may be available. Visit the relevant national website for information.

### Sales in the Nordic region

Once granted, a licence is valid throughout the Nordic region. The licence document specifies in which Nordic countries the products are sold according to the information provided on the application. The products are published on Nordic Ecolabelling's website(s). The licensee undertakes to inform Nordic Ecolabelling of any changes as to where the product is sold. If the product is to be sold in other Nordic countries than those initially specified in the application, the licensee must provide written notification of this and submit any extra documentation required to Nordic Ecolabelling in the country that issued the license.

**On-site inspection (for criteria in which it is usually made)**

In connection with handling of the application, Nordic Ecolabelling normally performs an on-site inspection to ensure adherence to the requirements. For such an inspection, data used for calculations, original copies of submitted certificates, test records, purchase statistics, and similar documents that support the application must be available for examination.

**Costs**

An application fee is charged to companies applying for a licence. There is an additional annual fee based on the turnover of the Nordic Ecolabelled TV or projector.

**Enquiries**

Please contact Nordic Ecolabelling if you have any queries or require further information. See page 3 for addresses.

# What are the requirements of the Nordic Ecolabel?

To be awarded a Nordic Ecolabel licence, all requirements must be fulfilled.

## 1 Environmental requirements

### 1.1 Energy and power consumption

#### 01 Specific requirement for Televisions

All products shall have a hard or soft on-off switch.

- Declaration from the manufacturer, that the requirement is fulfilled.
- Photographic or descript evidence regarding the on-off switch.

#### 02 Passive Standby for Televisions

The product shall meet the requirements for power consumption in standby and off mode according to current Ecodesign regulation (EC) No 642/2009.

- Test report and calculations according to (EC) No 642/2009, Ecodesign requirement regulation for televisions.

#### 03 Energy efficiency for Televisions

The product shall meet the requirement for Energy Efficiency Class A+ in the current Energy Labelling Regulations (EU) No 1062/2010, with updates, for all screen sizes.

- Test report and calculations according to (EU) No 1062/2010, Energy Labelling of televisions that verifies Energy Efficiency Index (EEI). When Energy Labelling Regulations are updated the licensee must show that the requirements are met before the regulations are into force.

#### 04 Specific requirement for Projectors

- The projector shall have a "Eco Mode".  
(*"Eco mode" reduces the power of the projector bulb to increase its life length and lower the energy use.*)
- It must be possible to set the projector to automatically go into Standby mode after a specified period of time when the video or computer interface is disabled.
- Standby power consumption shall be 0.5 W or less for every model. However, this item is not applicable on the network latency.
- Power consumption in use shall conform to the criteria in the table below.

Effective Flux (Brightness) x[lm*]	Power consumption [W]	Reference Model
$x < 2500$	$\leq 0.085[\text{W}/\text{lm}] \times x[\text{lm}] + 80[\text{W}]$	2000lm:250W
$2500 \leq x < 3000$	$\leq 0.077[\text{W}/\text{lm}] \times x[\text{lm}] + 80[\text{W}]$	2500lm:272W
$3000 \leq x < 3500$	$\leq 0.070[\text{W}/\text{lm}] \times x[\text{lm}] + 80[\text{W}]$	3000lm:290W
$3500 \leq x < 4000$	$\leq 0.060[\text{W}/\text{lm}] \times x[\text{lm}] + 90[\text{W}]$	3500lm:300W
$4000 \leq x < 5000$	$\leq 0.060[\text{W}/\text{lm}] \times x[\text{lm}] + 110[\text{W}]$	4000lm:350W
$5000 \leq x < 6000$	$\leq 0.060[\text{W}/\text{lm}] \times x[\text{lm}] + 160[\text{W}]$	5000lm:460W
$x \geq 6000$	$\leq 0.060[\text{W}/\text{lm}] \times x[\text{lm}] + 220[\text{W}]$	6000lm:580W

\*  $lm$  = ANSI Lumen according to IEC 61947-1 and IEC 61947-2

Note that in the case of a wide projector, short focus projector or products using 2 or more lamps on the light source, a reference value of power consumption shall be calculated by multiplying a coefficient per brightness [lm] by each of the following values:

A value to multiply for the wide projector  $\alpha$ :1.1

A value to multiply for the short focus projector  $\beta$ : $1/\cos\theta$  ( $\beta$  shall be up to 1.3).

$\theta$ =Injection angle: Angle of a horizontal line passing through the centre of a projector lens (mirror) and the centre of a project screen

A value to multiply for products using 2 or more lamps on the light source  $\gamma$ :1.5

Power consumption shall be measured in a normal mode (with maximum brightness) with no other function such as voice, etc. set.

**(Example)**

Conversion expression when brightness is  $6000 \geq \text{lm}$  and functions of both a wide projector and short focus projector are equipped and using 2 lamps as a light source:

$$\leq 0.060[\text{W}/\text{lm}] \times x[\text{lm}] \times \alpha \times \beta \times \gamma + 220[\text{W}]$$

Standby power consumption shall be 0,5W or less for every model. However, this item is not applicable on the network latency.

- ☒ Declaration from the projector manufacturer, showing that the requirement of "Eco-mode" and automatic stand-by mode is fulfilled.
- ☒ A test report shall be provided by the applicant to demonstrate that the product meets the requirement. The product shall be tested for its power consumption in its condition as delivered to the customer, according to the latest version of IEC62087. Test institute/analysis laboratory shall fulfil the requirements in Appendix 1.

## 1.2 Hazardous materials

### O5 Flame retardants in plastic and rubber parts

1. The flame retardants Hexabromocyclohexan (HBCDD), tris(2-chloroethyl)phosphate (TCEP) and high chlorinated short chain and high chlorinated medium chain chloro paraffins must not be added.
2. The flame retardant Tetrabrombisphenol-A (TBBP-A) must not be added,
3. Other organic halogenated flame retardants and other flame retardants assigned one or more of the following risk phrases, or combinations, must not be added:
  - H350 (may cause cancer)
  - H350i (may cause cancer by inhalation)
  - H340 (may cause heritable genetic damage)
  - H360F (may damage fertility)
  - H360D (may cause harm to the unborn child).
  - H360Fd (may damage fertility, suspected of damaging the unborn child)
  - H360Df (may cause harm to the unborn child, suspected of damaging fertility)

Exceptions from 2) are made for printed circuit board

Exceptions from 3) are made for flame retardants:

- In cases where there is demand for safety reason with reference to low voltage directive 73/23/EG or standard EN 60335-1
- Printed circuit board, PCB

- Plastic and rubber parts that weight less than 25 gram and are parts of electric components.

Exceptions are not made for flame retardants in 1) or that are regulated according to RoHS-directive (2011/65/ EG).

- The manufacturer of the TV or projector must provide a list of plastics and rubber used in plastic parts in the product signed by filling out Appendix 2 – Plastics and rubber in TV and Projector, Manufacturer´s Declaration.

The plastic and rubber manufacturer must provide a list with flame retardants used in plastic parts, by filling out Appendix 3 – Flame retardants in plastics and rubber, Plastic and rubber manufacturer´s declaration.

The manufacturer of flame retardants, used in plastic and rubber parts, must certify that the requirements are fulfilled by filling out Appendix 4 – Flame retardant manufacturer´s declaration and submit an MSDS for each flame retardant.

Confidential information can be sent directly to the Nordic Ecolabel.

## **06 Chlorine-based plastics**

Plastic parts >25g must not contain chlorinated polymers.

- Declaration from the manufacturer of TV/projector, showing that the requirement is fulfilled.

## **07 Phthalates in the external power cable**

The external power cable delivered with the product must not contain following substances:

- Diethylhexyl phthalate (DEHP)
- Dibutyl phthalate (DBP/DnBP)
- Benzyl butyl phthalate (BBP)
- Dicyclohexyl phthalate (DCHP)
- Diisobutyl phthalate (DIBP)
- Diisononyl phthalate (DINP)
- Diisodecyl phthalate (DIDP)
- Di-n-octylphthalate (DNOP)
- Dihexyl phthalate (DHP)
- Diethyl phthalate (DEP)
- Diisoheptyl phthalate (DIHP)
- Bis(2-methoxyethyl) phthalate
- Diisopentyl phthalate
- N-pentyl-isopentyl phthalate

Ingoing substances are defined as all substances in the product – including additives, but not residuals from production. Residuals are defined as residuals, pollutants and contaminants derived from the production, which are present in the final product in amounts less than 1000 ppm (0.1% by weight, 1000 mg/kg), but not substances added to the raw materials or product intentionally and with a purpose – regardless of amount. Known substances realised from the raw materials are also regarded as ingoing substances.

Declaration is made by the chemical supplier based to the best of his/her knowledge at the given time, also based on information from raw material manufacturers, recipe and available knowledge on the chemical product with reservations for new advances and

new knowledge. Should such new knowledge arise, the undersigned is obliged to submit an updated declaration to Nordic Ecolabelling.

- Declaration from the cable manufacturer, Appendix 6, can be used.

### **08 Mercury content in background light in LCD displays and projector lamp**

The background light in the TV-screen must not have any mercury (Hg) content.

The lamp for projectors cannot contain mercury (Hg).

- A declaration from the manufacturer of the TV/projector showing that the requirement is fulfilled.
- The manufacturer of the TV/projector shall also describe the technique used.

### **09 Declaration of nitrogen trifluoride (NF<sub>3</sub>) and sulphur hexafluoride (SF<sub>6</sub>) emission during LCD production**

The LCD panel must be produced in such a way that the greenhouse gases NF<sub>3</sub> and SF<sub>6</sub>, if part of the production process, are abated by a system that is an integrated part of the production process. It is the responsibility of the manufacturing company to ensure that the abatement system is installed, operated and maintained in accordance with the manufacturers (of the abatement system) specifications.

The manufacturer of the LCD shall declare the amount of NF<sub>3</sub> and SF<sub>6</sub> purchased in relation to amount of LCD (m<sup>2</sup>) produced over one year.

- Description of the abatement system for NF<sub>3</sub> and SF<sub>6</sub> gases used in the production of the LCD modules that are used in the TV. Declaration from the manufacturer(s) of the LCD, declared by production site.

The manufacturer of the TFT-cell shall declare the amount of NF<sub>3</sub> and SF<sub>6</sub> purchased in relation to amount of TFT-cell (m<sup>2</sup>) produced over one year.

Confidential information can be sent directly to the Nordic Ecolabel.

## **1.3 Noise**

### **010 Noise limit for Projectors**

The noise emission at normal mode shall satisfy the following levels:

<b>Effective Flux (Brightness) x[lm*] and Weight of Product Main Body [kg]</b>	<b>Noise [dB]</b>
x < 5000 and y ≤ 2	≤ 42
x < 5000 and y > 2	≤ 37
x ≥ 5000	≤ 48

\* *lm* = ANSI Lumen according to IEC 61947-1 and IEC 61947-2

The sound power level must be measured in accordance with ISO 7779 and declared in accordance with ISO 9296. If the sound power level measurement is carried out on one appliance only the factor K = 3.0 dB(A) shall be added to the measured value. The factor K allows for measurement errors when the same device is tested using the same method at different conditions and for deviations in production.

- A test report shall be provided by the applicant to demonstrate that the product meets the requirement. Test institute/analysis laboratory shall fulfil the requirements in appendix 1.

## 1.4 Design

### O11 Dismantling

The manufacturer shall demonstrate that the product can be easily dismantled by professionally trained recyclers, using the tools usually available to them, for the purpose of:

- undertaking of repairs and replacements of worn-out parts
- upgrading older or obsolete parts
- separating parts and materials, ultimately for re-cycling

To facilitate the dismantling:

- Fixtures within the products shall allow for this disassembly, e.g. screws, snap-fixes, especially of parts containing hazardous substances.
- Plastic parts shall be of one polymer or be of compatible polymers for re-cycling and have the relevant ISO11469 marking if >25g in mass. Exception is made for extruded plastic materials and for light emitters in flat screens.
- Metal inlays that cannot be separated shall not be used.
- Data on the nature and amount of hazardous substances in the television will be gathered in accordance with the directive of classification, packaging and labelling of dangerous substances (67/548/EEC) and directive 2006/121/EEC about changes in directive 67/548/EC.

- ☒ An exploded diagram of the product labelling the main components as well as identifying any hazardous substances in components. This can be in written or audio-visual format. Information regarding hazardous substances shall be provided in the form of a bill of materials identifying material type, quantity used and location, by filling out Appendix 5.

### O12 Re-cycled material in packaging

When cardboard boxes are used, they shall be made of at least 50 % post-consumer re-cycled material. Only primary packaging, as defined in Directive 94/62/EC, is subject to the requirement.

- ☒ Declaration from TV or projector manufacturer showing that the requirement is fulfilled.

## 1.5 Customer information/life-time extension

### O13 Requirements regarding life-time extension

The manufacturer shall offer a commercial guarantee to ensure that the product will function for at least two years. This guarantee shall be valid from the date of delivery to the customer.

The availability of compatible electronic replacement parts shall be guaranteed for seven years from the time that production ceases.

This shall be written in the electronic and/or printed product fact sheet.

- ☒ Declaration from the manufacturer of the TV or projector showing that the requirement is fulfilled.
- ☒ Enclose written electronic and/or printed product fact sheet.

**O14 Operating instructions**

The product shall be delivered with an instruction manual which provides advice on how the product is best used from an environmental perspective.

The instructions shall include information that the product is Nordic Ecolabelled with a brief explanation of what this means together with a reference that more information about the Nordic Ecolabel can be found on the Nordic Ecolabel website.

- Copy from the instruction manual that show advice on how the device is best used from an environmental perspective.
- Copy from the instruction manual that displays information about that the product is Nordic Ecolabelled.

**1.6 Working Condition - Code of conduct****O15 Code of conduct**

The license holder must have a code of conduct that shows how the license holder works to ensure that human rights, labor rights, environmental protection and anti-corruption measures follow international guidelines, such as the principles of the United Nations Global Compact, read more at <http://www.unglobalcompact.org>.

The licensee shall ensure that all suppliers / subcontractors are aware of the code of conduct, and urging that these apply a code of conduct.

If the license holder violates the code of conduct the Nordic Ecolabel license can be revoked.

**No documentation is required, but Nordic Ecolabelling may revoke the license if the requirement is not fulfilled.**

**2 Quality and regulatory requirements**

To ensure that Nordic Ecolabel requirements are fulfilled, the following procedures must be implemented.

If the manufacturer's quality management system is certified according to ISO 9001 and environmental management system is certified according to ISO 14 001 or EMAS, the following requirements are met.

**O16 Nordic Ecolabel licence contact**

The company shall appoint a person responsible for ensuring the fulfilment of Nordic Ecolabel requirements, and a contact person for communications with Nordic Ecolabelling. Preferably, this should be the same person.

- Valid certificate of ISO 9001 and ISO 14001 or EMAS for all production sites for Nordic Ecolabelled products, or a chart of the company's organizational structure detailing who is responsible for the above.

**O17 Documentation**

The licensee must be able to present a copy of the application and factual and calculation data supporting the documents submitted on application (including test reports, documents from suppliers and suchlike).

- Checked on site.

**O18 Quality of the product**

The licensee must guarantee that the quality in the production of the Nordic Ecolabelled TV or projector is maintained throughout the validity period of the licence.

- Valid certificate of ISO 9001 and ISO 14001 or EMAS for all production sites for Nordic Ecolabelled products or procedures for collating and, where necessary, dealing with claims and complaints regarding the quality of the Nordic Ecolabelled TV or projector.

**O19 Service and support**

The licensee shall offer the possibility of service and support in the official Nordic language where the Nordic Ecolabelled product is sold.

- Valid certificate of ISO 9001 and ISO 14001 or EMAS for all production sites for Nordic Ecolabelled products or description of service and support organisation.

**O20 Planned changes**

Written notice must be given to Nordic Ecolabelling of planned changes in products and markets that have a bearing on Nordic Ecolabel requirements.

- Valid certificate of ISO 9001 and ISO 14001 or EMAS for all production sites for Nordic Ecolabelled products or procedures detailing how planned changes in products and markets are handled.

**O21 Unplanned nonconformities**

Unplanned nonconformities that have a bearing on Nordic Ecolabel requirements must be reported to Nordic Ecolabelling in writing and in a journal.

- Valid certificate of ISO 9001 and ISO 14001 or EMAS for all production sites for Nordic Ecolabelled products or procedures detailing how unplanned nonconformities are handled.

**O22 Traceability**

The licensee must be able to trace the Nordic Ecolabelled product in the production.

- Valid certificate of ISO 9001 and ISO 14001 or EMAS for all production sites for Nordic Ecolabelled products or description of the fulfilment of the requirement.

**O23 Take-back system**

Relevant national producer responsibility regulations, legislation and/or agreements within the sector regarding the recycling systems for products and packaging shall be met in the Nordic countries in which the Nordic Ecolabelled TV or projector are marketed.

- Valid certificate of ISO 9001 and ISO 14001 or EMAS for all production sites for Nordic Ecolabelled products or declaration from the applicant regarding adherence to existing recycling/take-back agreements.

**O24 Legislation and regulations**

The licensee must guarantee adherence to safety and EMC regulations, working environment legislation, environmental legislation and conditions/concessions specific to the operations at all sites where the Nordic Ecolabelled product is manufactured. Additionally the licensee must guarantee adherence to product-specific regulations in all the Nordic countries where the product is sold.

**No documentation is required, but Nordic Ecolabelling may revoke the license if the requirement is not fulfilled.**

# Regulations for the Nordic Ecolabelling of products

More information about regulations, fees and graphical guidelines can be found at <http://www.svanen.se/en/For-Companies/Download/Regulations/> or at <http://www.nordic-ecolabel.org/downloads/regulations/>

## Follow-up inspections

Nordic Ecolabelling may decide to check whether the TV or projector fulfils Nordic Ecolabel requirements during the licence period. This may involve a site visit, random sampling or similar test.

The licence may be revoked if it is evident that the TV or projector does not meet the requirements.

## How long is a licence valid?

Nordic Ecolabelling adopted the criteria for TV and Projectors on 20 June 2013. The criteria are valid until 30 June 2016.

On 19 February 2014 the Secretariat Manager's meeting decided to adopt a change in O7 Phthalates in external power cable. A definition of residuals in the plastics has been added to the requirement. The new version is called 5.1.

On 13 May 2014 the Board of Directors decided to adopt a change in O11 Dismantling. Exception is made for extruded plastic materials and for light emitters in flat screens. The new version is called 5.2.

On 16 June 2015 the Nordic Ecolabelling's Criteria Group decided to prolong the criteria with nine months. On 17 November 2014 the Board of Directors decided to remove requirement O26 Marketing. The new version is called 5.3 and is valid until 31 March 2017.

Nordic Ecolabelling decided November 5, 2015 to prolong the criteria with twenty-seven months simultaneously adopted the following changes: Requirement O13 Plastic packaging material was removed, Requirements O15 Manuals and O16 Code of Conduct were changed and the documentation requirements O17, O19 - O24 was changed. New version is 5.4 and it is valid until June 30, 2019.

On 15 December the Nordic Ecolabelling's Criteria Group decided to prolong the criteria with one year. The new version is 5.5 and is valid until June 30, 2020.

The Ecolabel licence is valid providing the criteria are fulfilled and until the criteria expire. The validity period of the criteria may be extended or adjusted, in which case the licence is automatically extended and the licensee informed.

Revised criteria shall be published at least one year prior to the expiry of the present criteria. The licensee is then offered the opportunity to renew their licence.

## New criteria

In the upcoming revision of the criteria for TV and Projectors the following requirements will be revised:

- Revised requirements for energy efficiency and possibilities for energy requirements in production phase.
- Limit value for  $\text{NF}_3$  and  $\text{SF}_6$  and other greenhouse gases used in LCD-display/TFT-cell production
- Requirements for additives in plastics (Flame retardants and phthalates)

In the next coming revision Nordic Ecolabelling will focus on:

- Regulations to minimize the risk of use of “conflict metals” in electronics
- Additives in plastics such as phthalates, flame retardants and other additives
- Possibilities to use recycled or bio based plastic
- Revision of projectors requirement (energy and noise)
- Requirements for halogen-free cables

## **Appendix 1 Requirements on test institute/analysis laboratory**

The analysis laboratory used shall fulfil the general requirements of standard EN ISO 17025 or have official GLP status.

The applicant shall bear the costs of documentation and analysis.

The applicant's analysis laboratory/test procedure may be approved for analysis and testing if:

- sampling and analysis is monitored by the authorities, or
- the manufacturer's quality assurance system covers analyses and sampling and is certified to ISO 9001, or
- the manufacturer can demonstrate agreement between a first-time test conducted at the manufacturer's own laboratory and testing carried out in parallel at an independent test institute, and the manufacturer takes samples in accordance with a fixed sampling schedule.

## Appendix 2 Plastics and rubber in TV and Projector, Manufacturer's Declaration (O5)

Type of product for which the Nordic Ecolabel is sought:

Type: \_\_\_\_\_

Name of product: \_\_\_\_\_

To be completed by the applicant and sent to Nordic Ecolabelling.

Listed below are all plastic and rubber parts in the product.

### List of all plastic and rubber parts in the product

Plastic/rubber Manufacturer	Trade name of plastic/rubber	Used in component:	Supplied by:

TV or projector manufacturer:

Location and date	Company
Name in block capitals	Phone
Contact person, signature	

## Appendix 3 Flame retardants in plastics and rubber, Plastic/rubber manufacturer's Declaration (O5)

To be completed by the applicant and the manufacturer of the plastic product(s) and sent to Nordic Ecolabelling.

We the manufacturer of the plastic and rubber(s) declares that the plastic and rubber(s) listed below in the table do not contain other flame retardants than those declared in the same table.

Nordic Ecolabelling must be informed in forehand if any changes to the plastic and rubber are made regarding the flame retardants.

### List of flame retardants

Plastic/Rubber trade name	Trade name of flame retardant in plastic/rubber	Flame retardant 's CAS no.	Manufacturer of flame retardant

Plastic/Rubber manufacturer

Location and date	Company
Name in block capitals	Phone
Contact person, signature	

*Other information:*

*This information can be submitted directly from the manufacturer of the flame retardant/plastic.*

*A declaration of confidentiality can be drawn up between the manufacturer of the flame retardant/plastic and Nordic Ecolabelling.*

## Appendix 4 Flame retardants, Manufacturer's Declaration

To be completed by the manufacturer of the flame retardant and sent to Nordic Ecolabelling.

We hereby declare that (name and CAS # of the flame retardant)

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may not be assigned, any of the risk phrases as defined according to Regulation (EC) No 1272/2008 or as defined according to the Directives 67/548/EEC and 1999/45/EEC:

- H350 (may cause cancer)
- H350i (may cause cancer by inhalation)
- H340 (may cause heritable genetic damage)
- H360F (may damage fertility)
- H360D (may cause harm to the unborn child).
- H360Fd (may damage fertility, suspected of damaging the unborn child)
- H360Df (may cause harm to the unborn child, suspected of damaging fertility)

Flame retardant's manufacturer:

Location and date	Phone
Company	
Contact person, signature	
Name in block capitals	

## Appendix 5 Dismantling, Manufacturer's Declaration (O11)

Type of product for which ecolabelling is applied:

Name of product/products: \_\_\_\_\_

- O 11** Are metal inlays that not can be separated used?  Yes  No
- O 11** Are all plastic parts weighing more than 25 grams marked in accordance with ISO 11 469? Exception is made for extruded plastic materials and for light emitters in flat screens.  Yes  No
- O 11** Are the fasteners in the product designed to allow for disassembly, for example, screws, snap fasteners?  Yes  No
- O 11** Does plastic parts consisting of one polymer or compatible polymers to facilitate recovery?  Yes  No

TV or projector manufacturer:

Location and date	Company
Name in block capitals	Phone
Contact person, signature	

## Appendix 6 Softeners/Phthalates, Manufacturer's Declaration(O7)

To be completed by the manufacturer of the cable and sent to Nordic Ecolabelling.

We hereby declare, to the best of our knowledge, that the cable does not contain following substances:

- Diethylhexyl phthalate (DEHP)
- Dibutyl phthalate (DBP/DnBP)
- Benzyl butyl phthalate (BBP)
- Dicyclohexyl phthalate (DCHP)
- Diisobutyl phthalate (DIBP)
- Diisononyl phthalate (DINP)
- Diisodecyl phthalate (DIDP)
- Di-n-octylphthalate (DNOP)
- Dihexyl phthalate (DHP)
- Diethyl phthalate (DEP)
- Diisoheptyl phthalate (DIHP)
- Bis(2-methoxyethyl) phthalate
- Diisopentyl phthalate
- N-pentyl-isopentyl phthalate

*Ingoing substances are defined as all substances in the product – including additives, but not residuals from production. Residuals are defined as residuals, pollutants and contaminants derived from the production, which are present in the final product in amounts less than 1000 ppm (0.1% by weight, 1000 mg/ kg), but not substances added to the raw materials or product intentionally and with a purpose – regardless of amount. Known substances realised from the raw materials are also regarded as ingoing substances.*

*This appendix is completed and signed by the chemical supplier based to the best of his/ her knowledge at the time of the application, also based on information from raw material manufacturers, recipe and available knowledge on the chemical product with reservations for new advances and new knowledge. Should such new knowledge arise, the undersigned is obliged to submit an updated declaration to Nordic Ecolabelling.*

**Cable manufacturer:**

Location and date	Phone
Company	
Contact person, signature	
Name in block capitals	