

# Hong Kong Green Label Scheme

## Product Environmental Criteria for

### Computer Monitor (GL-006-002)



## BACKGROUND

The Hong Kong Green Label Scheme (HKGLS) is an independent and voluntary scheme, which aims to identify products that are, based on life cycle analysis consideration, more environmentally preferable than other similar products with the same function. The Scheme is organized by the Green Council (GC) with contributions from the HKGLS Advisory Committee and a number of supporting organizations.

The prime objectives of HKGLS are:

- For Consumers: assist in making purchases of products that are less harmful to the environment;
- For Industry: stimulate development and production of environmentally preferable alternatives.

This specification sets out the requirements that computer monitors will be required to meet in order to be licensed to use the HKGLS label. The requirements include environmental criteria and product characteristics. The specification also defines the testing and other means to be used to verify conformance with the criteria and product characteristics.

## POTENTIAL ENVIRONMENTAL IMPACTS

Personal computers and associated display monitors burden the environment throughout the entire product life cycle stages, including the consumption of natural resources, the production of raw materials, the production of electronic and other components, the assembly into a finished product, the use of products, the transport and maintenance services, and finally the waste disposal. The packaging of the computer products also contributes to solid waste generation.

## LABEL OBJECTIVE

The aim of the environmental criteria developed for computer monitors is to:

- Reduce the material types and the use of the environmentally harmful substances;
- Reduce energy consumption and promote energy-saving computer monitors;
- Promote improved durability and recyclability of computer monitors; and
- Minimize waste production by reducing the amount of primary packaging and promotion its reusability and/or recyclability.

## PRODUCT DEFINITION

This document and all product environmental criteria therein apply to the computer monitors of both stationary and portable personal computers. The main computer system unit and separate system components such as mouse, modem, memories and other accessories located outside the system units are not included in this product category.

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The product criteria for the computer main systems and printers are available and presented in separate fact sheets of GL-006-001 and GL-006-003 respectively.

**PRODUCT ENVIRONMENTAL CRITERIA**

The table below sets out the product environmental criteria for computers monitors (GL-006-002) under the HKGLS.

Criteria	Verification Method
<p>1. Power consumption of the computer monitor shall not exceed the following limits in normal use:</p> <ul style="list-style-type: none"> <li>• 90W for screen size of 14"- 15"</li> <li>• 130W for screen size of 16"- 18"</li> <li>• 170W for screen size of 19" or above</li> </ul>	<p>A (USEPA Energy Star Office Equipment Program), B,C</p>
<p>2. The monitor shall have a sleep mode and a deep-sleep modes with their respective maximum power consumption (MPC) and default activation period (DAP) as follows.</p> <p>(a) For sleep mode, MPC &lt; 15W and DAP &lt; 30 minutes (b) For deep-sleep mode, MPC &lt; 8W and DAP &lt; 60 minutes</p> <p>Documented user instructions on how to use these modes shall be included</p>	<p>A (USEPA Energy Star Office Equipment Program), B,C</p>
<p>3. The manufacturer shall offer a minimum of one-year guarantee on the monitor.</p>	<p>C</p>
<p>4. The following design-for-recycling features shall be incorporated into the casing of monitor.</p>	<p>B,C</p>

Plastic parts weighing over 25g and with an even surface of over 200mm<sup>2</sup>, excluding extruded plastic materials, shall be marked for identification according to the ISO11469 Standard;

At least 90% of plastic materials by weight shall be recyclable;

Plastic parts and metal parts shall be separable;

Plastic parts made of recyclable and non-recyclable materials shall be separable;

Labels, if any, shall be detachable;

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5. Plastic parts shall have no lead or cadmium added by the manufacturer and plastic parts weighing over 25g shall not contain flame retardants containing organically bounded bromine or chlorine. C,D
6. Cadmium and mercury shall not be added in the picture tube of the CRT display or to the LCD display. C,D
7. Packaging requirements: B,C,D
- Packaging materials shall not contain chlorine-based plastics;
  - General packaging requirements(refer to criteria for packaging materials: GL-Packaging).

**Legend :**

- A – Laboratory testing of product samples in accordance with the method reference as indicated inside bracket.
- B - Inspection of product samples
- C – Review of supporting information as required by GC
- D – Interviews with relevant personnel and/or site visits to relevant facilities