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Title: ECOMARK – ECOLOGICAL PRODUCTS CERTIFICATION

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#### **ABOUT US**

A directive numbered 1980/2000 (EC) was issued by the European Union in 2000 within the scope of harmonization laws. This directive sample is required to draw a circle on the contour lines. The directive in question calls for the removal of the environment and the removal of this product with the target target indicated in the environmental labeling. Ekomark © Standard has prepared this product to be grown in aquaculture products that are not grown in aquaculture products and in aquaculture standards. While designing this standard, the Eco-Label Regulation 66/2010/EC updated by the European Union and updated in 2010 was taken as a basis for certification studies. The example of the products within the scope of use in the Ekomark © Standard is in line with the application given by Europe.

### Part A: General Information

Chapter A "General information" is a horizontal document detailing the different steps of the application process for all Ecomark products.

### Part B: Product Evaluation and Verification

#### 1.Scope

The 'printed paper, stationery and paper carrier bag products' product line will include the following products:

(a) printed paper products consisting of at least 90% according to the weight of paper, cardboard or paper-based substrates, except for books, catalogues, booklets or forms consisting of at least 80

% according to the weight of paper or cardboard or paper-based substrates. The inserts, covers and pieces of printed paper of the final product will be used to form a part of the product other than non-site attachments (such as flyers, removable stickers) that are sold or provided for printed paper products. If ecomark is intended to be placed in non-site inserts, they fulfill the requirements of this Annex. Adds a site to the printed paper product (not intended to be removed) and fulfills the requirements of this Appendix;

(b) envelopes consisting of at least 90% according to the weight of paper, cardboard or paper-based substrates;

(c) paper carrier bags, including packaging paper consisting of 100% according to the weight of paper, cardboard or paper-based substrates;

(d) stationery products, including hanger files and folders with metal fasteners where the ceiling is not applied, as well as filing products consisting of at least 70% of paper, cardboard or paper-based substrates by weight.

For products referred to in paragraph 1 (a) that shall consist of at least 80% of paper or cardboard or paper-based substrates according to their weight, and products specified at the point (d) of paragraph 1), the plastic component shall not exceed 10% in weight except for ring connectors, exercise books, notebooks, journals and arm belt files, where plastic weight cannot exceed 13%.

It cannot exceed 30g per product except for folders with file capacity of up to 225 pages, where up to 75g will be filed, and lever arch files with a filing capacity of more than 225 sheets, where there will be up to 75g with metal weight, suspension files, metal fasteners, ring connectors and arm belt files.

The product line 'printed paper, stationery paper and paper carrier bag products' does not include the following products or materials:

(a) elements attached to packages such as packagingand labels (excluding paper carrier bags and packaging paper);

(b) corrugated cardboard;

(c) Materials that come into contact with food and substances intended to come into contact with food, which constitute the subject of Article 1 of the Commission Regulation (EC) no. 1935/20042;

(d) Commission Decision () products that fall into the 'tissue and tissue products' product group defined in Article 2 in 2019/70;

(e) fragrant printed paper products, fragrant stationery paper products and scented carrier bags;

(f) polyvinyl chlorine (PVC).

In the "Product description" section of the Application and Verification form, specify the type of product and the registered trade name.

### 1.1 Definitions

The following definitions will apply to the references in this User's Guide:

(1) 'Connectors' refers to paper-based products used for storing documents or magazines, usually made of wood, consisting of a cover with rings to hold loose paper together, including ring connectors and arm belt files.

(2) 'books' means hard or soft-lidded yarn-bound or stickye-bound printed paper products, including regular annual reports, magazines, brochures, magazines and catalogs.

(3) 'filing products' means the product used for the organization, storage and protection of paper documents, including suspension files and belt arm files.

(4) 'folder' means a folding case or cover used for storing loose paper, including indices and dividers, document wallets, square cut folders, suspension files, cardboard boxes, and 3-cover folders.

(5) 'insert' means an extra sheet or section placed on the pages of a printed paper product that is removed (non-sit insert) or linked to the pages of the printed paper product, thereby printing an integral part of them (site insertion) regardless of the printed paper product, including multipage advertisements, booklets, brochures, answer cards or other promotional materials.

(6) 'Packaging' means al I products made of any material of any nature to be used for the storage, protection, processing, delivery or presentation of goods from raw material to processed goods, manufacturer to user or consumer.

(7) 'Paper carrier bags' mean paper-based products used for transporting or transporting goods.

(8) 'Printed paper product' means the product that carries the printed image, including the finishing process, resulting from the processing of a printed printing material.

(9) 'Stationery products' means writing and filing materials made of paper, including envelopes and office supplies.

(10) 'Wrapping paper' means a paper or roll used to wrap items such as gifts and packages.

(11) 'sticky application' refers to processed adhesives (usually applied as films) used in finished paper products.

(12) 'Cleaning agents' mean: (a) liquid chemicals used to wash printing forms, printing presses to remove printing on both separate (non-press) and integrated (in-print) veks, paper dust and similar products; (b) cleaners to finish machines and printing machines, such as cleaners, to remove residues of glue and varnish; (c) disassembly of printing inks used for washing dried printing inks; cleaning agents are not included to clean other parts of the press or to clean machines other than printing machines and finishing machines.

(13) 'Conversion process' means a process in which a material is sometimes processed into a converted paper product, including a printing process (pre-press, press, and post-press operations).

(14) The 'converted paper product' is a paper, board or paper-based substrate that is usually used to protect, process or store items or notes, consisting of three main categories: envelopes, paper carrier bags and stationery paper products, where the conversion process is part of the production process.

(15) 'Flexography' means a printing activity using liquid inks that dry through evaporation, using the image carrier of rubber or elastic photopolymers, where the printing areas are above the nonprinting areas.

(16) 'Leakage emissions' means emissions in waste gases of volatile organic compounds, i.e.in provinces and water, as well as solvents contained in any product, unless otherwise stated in Section 2 of Annex VII.

(17) A 'halogen organic solvent' means an organic solvent containing at least one atom of bromine, chlorine, fluorine or iodine per molecule.

(18) 'heatset web offset' means a web-fed print activity using an image carrier where the print and nonprinting area is on the same plane, where the material to feed on the web is fed from a different reel to the machine from separate pages.

(19) 'lamination' means that two or more flexible materials are glued together to produce laminate.

(20) 'Paper for recycling' means paper waste flow produced during the production of the finished product.

(21) 'pressure sensitive adhesive coatings' (PSA): It means that adhesives with sedentary moving molecules on their surface can produce sufficient adhesion by pressing their adhesive films (coating) onto the surface to be glued, even after adjusting.

(22) 'publication rotogravure' means a rotogravure printing activity used to print paper for magazines, brochures, catalogs or similar products using toluene-based inks.

(23) 'pushing' means turning the paper back into dough.

(24) 'Rotary screen printing' means a web-fed print activity in which the ink is passed through a porous image carrier, where the print area is open and the non-print area is closed, using liquid inks that dry only through evaporation, and passed to the surface to be printed.

(25) 'rotogravure' means a print effectiveness using liquid inks that dry through evaporation, using a cylindrical image carrier where the print area is below the nonprinting area.

(26) 'TVOC' means total volatile organic carbon, expressed in C (air).

(27) 'web feed' means that the material to be printed is fed from a roller to a machine, unlike separate sheets;

(28) 'varnishing' means an activity in which the packaging material is then applied to a flexible material of a varnish or adhesive coating for sealing purposes;

(29) 'Volatile Organic Compounds' (VOC) refers to organic compounds measured at standard pressure of 101.3 kPa, as defined in directive 2004/42/EC of the European Parliament and Council, with an initial boiling point of less than or equal to 250 °C, including n-Tetradecane (C14H30) in a capillary column.

### 1.2 Step-by-step walkthrough between criteria

It is recommended that you start checking internally whether prospective products can meet the criteria. Before you begin:

Make sure that the prospective product meets all applicable legal requirements of the country or countries where the product is intended to be released.

### 1.3 Validation form

You must fill in the active fields in the Evaluation and validation form.

• Provide relevant evidence about your company's status and, if applicable, EMAS or ISO 14001 certifications. This relates to application fees.

### 2 Product Group Criteria

The following tloda summarizes all the criteria of the Commission Resolution No. 2020/1804 dated November 27, 2020 () that sets ecomark criteria for printed paper, stationery and paper carrier bag products.

#### No. criteria

- 1 Substrate
- 2 Hazardous substance restrictions
- 2.1 Restrictions on Very High Anxiety Substances (SVHC's);

2.2 Restrictions onarticles classified under Regulation 1272/2008 (EC) of the European Parliament and council3

- 2.3 Biocidal products and biocidal active substances
- 2.4 Cleaning agents
- 2.5 Alkyl phenol ethoxylates, halogen solvents and phthalates
- 2.6 Other restrictions for printing inks, tones, and varnishes
- 2.7 Toluen recovery from rotogravure printing
- 3 Recyclability
- 3.1 Removal of non-paper parts
- 3.2 İtilebilirlik
- 3.3 Yapıştırıcıların çıkarılilirliği
- 3.4 Deinkility.
- 4 Emissions

4.1 Emissions from rotogravure pressure to water

4.2 VOC emissions from installations or equivalent installations under directive 2010/75/ of the European Parliament and Council

4.3 VOC emissions from printing processes not covered by directive 2010/75/ of the European Parliament and Council

- 5 garbage
- 5.1 Waste management system
- 5.2 Paper for recycling from printing plants

5.3 Paper for recycling from stationery paper products and carrier bag production locations

- 6 Energy use
- 7 training
- 8 Suitability for use
- 9 Information about the product
- 10 Information about Ecomark

When the applicant is required to submit statements, documents, analyses, test reports or other evidence to demonstrate compliance with the criteria, they are appropriate from the applicant and/or their suppliers and/or suppliers, etc.

Authorized organizations will preferably recognize the approvals issued by accredited organizations in accordance with the relevant harmonized standard for testing and calibration loratuvars and the verifications made by accredited organizations in accordance with the relevant harmonized standard for organizations documenting products, processes and services.

When appropriate, if the authority evaluates the application, test methods other than those specified for eachcriterion are used.

Where appropriate, authorized organizations may require supporting documentation and may perform independent verifications or field inspections to check compliance with these criteria.

Suppliers and changes in production sites related to the products ecomark is supplied with will be notified to the Competent Authorities together with supporting information to ensure continuous compliance with the criteria.

As a prerequisite, printed paper, stationery paper and paper carrier bag products will meet all applicable legal requirements of the country or countries where the product is released to the market. The applicant shall declare that the product complies with this requirement.

Every criterion has to be met.

Specific evaluation and verification requirements are specified in each criterion.

For a recurring product type or a product type to be produced only once, the application must handle a specific product.

As a prerequisite, a product must meet all reputable legal requirements of the country or countries in which the product will be released.

When the 'worst' reference status application is submitted and approved, any changes to the criteria (e.g. substrate paper, chemicals, coating and finishing of the printed paper product or the amount of waste produced) will be immediately notified to the relevant Competent Authority for approval.

Interpretation of PRODUCT LINE:

The product type (or product line) is characterized by site production and is used in form, material, ink and binding, etc.

The license for this product will be granted to a specific type of product group that fulfills the general description. If there are any changes in the supplier or the materials or chemicals used, cb must be notified.

The introduction of the product range is a compromise between service and product approach. Its purpose is to facilitate the certification of a product that is produced in a site tanda but where certain design and print content can change dynamically, that is, the print coverage of brochures. Evaluation of a product line (a product type) should be done in the worst-case scenario for a defined product line. A representative worstcase example for a product line is product theory.

In the evaluation, paper, chemicals, printing technique, etc. If a sample product meets the criteria, not every product in the same product line needs to be reassessed. Ecomark is used for all subsequent products that meet the criteria defined for the sample product.

Applications are made for a product line of the specified type, such as a 2 to 30-page glued brochure. The sample product should be analyzed according to all materials and chemicals used, paper types, maximum number of pages, maximum um format, all possible types of binding. The application will include a list of all the printing presses and subcontractors involved in the production of the product and their geographical location.

Changes to suppliers, production sites and production process related to the products ecomark is supplied with will be notified to the Competent Authorities together with supporting information to ensure continuous compliance with the criteria.

Criterion 1. Sub taka

Criterion 2. Restricted items

Interpretation of Criteria:

The printing and conversion industry is mainly the assembly industry of component parts and materials from suppliers. All component parts/materials used and the final product itself maybe used as "articles", as defined in article 3(3) of R EACH" an object given a specialshape, surface or design that determines its function to a greater extent than its chemical compositionduring production ".

To demonstrate compliance with each of the sub-criteria under criterion 2, the applicant must provide a list of all relevant chemicals used in conforming to the appropriate documentation (for example, a statement from the safety datasheet and/or chemistry administrator).

As a minimum, all process chemicals used by the applicant in the relevant printing or conversion processes must be scanned.

2.1. : The product will not contain Very High Anxiety Substances (SVHC) in concentrations greater than 0.10% (w/ w). All chemicals used by the applicant in the production process and the supplied materials that form part of the final product will be covered by the declarations from suppliers.

The list of substances defined as SVHC and included in the list of candidates in accordance with Article 59(1) of regulation (EC) no. 1907/2006 is found here. The list will be submitted on the date of reference.

2.2. Criterion 4.2 lists restricted CLP classifications and hazard statements. The product and any component substances herein will not contain substances or mixtures of concentrations greater than 0.10% (w/w), classified by any of the listed hazard statements unless derogated.

2.3. The product will not be processed with any biocidal product, including type 7 (film protectors) and type 9 (fiber, leather, rubber and polymerized materials preservatives).

Only enclosures (i.e. biocidal product type 6: preservatives for products during storage) and preservatives used for liquid cooling and processing systems (i.e. biocidal product type 11) will be permitted under the specified conditions in print inks, varnishes, varnishes and other formulations used in production processes.

2.4. Cleaning agents used for routine cleaning operations in printing operations must meet certain conditions. Restrictions do not apply to cleaning agents used only in occasionalspecial formulations, such as dried ink removers and blanket invigorators. The Toluen restriction does not apply to cleaning agents used in rotogravure printing.

2.5. APEO or other alkylphenol derivatives that will not be added to inks, paints, tons, adhesives or cleaning agents used to produce paper, paper short or paper carrier bag product shall not be added to the printing process or inks, paints, tones, adhesives or cleaning agents used in the printing process or in the subprocessing used to produce the printed paper, paper stationery or paper carrier bag product: Alkylphenol derivatives are defined as lower postures that produce alkylphenols on deterioration.

A list of process and functional chemicals must be supported by a safety datasheet and/or a declaration from the chemical supplier.

SDS does not support hazard classification or classification. The following information is

Used:

- (i) CAS, EC, or list number of the item;
- (ii) physical form and status in which the item is used;
- (iii) harmonized CLP hazard classifications;
- (iv) Self-classification entries in ECHA's REACH registered item data.

Section C-D: Separate declarations have been developed for the different types of chemicals to be used as an alternative to the combined declaration available to an applicant in the Evaluation and Verification form. These notices are set to be filled in by an external supplier. Declarations are available in Appendix I of the User's Guide.

□ At a minimum, a list of all relevant processes and functional chemicals used by the applicant in the relevant printing or conversion processes should be scanned:

• Absence of SVC above 0.10% and declaration of chemical lists and CLP classification 2.1 -2.2 (SVHC's).

- Declaration 2.3. Biocidal products and biocidal active substances (optional).
- Declaration 2.4. Cleaning agents.
- Declaration 2.5. Alkyl phenol ethoxylates, halogen solvents and phthalates.
- Declaration 2.6. Ink, toner and varnish printing restrictions.

All chemicals and chemical formulations used by the applicant in the production process and the supplied materials that form part of the final product shall be covered by the relevant declarations.

An external product or chemical supplier must always provide a meeting criterion statement

2.1. and 2.2. (Appendix I: Declaration 2.1 and Declaration 2.2.).

To a minimum, all process chemicals used by the applicant in the relevant printing or conversion processes should be scanned.

Evaluation and verification of criterion 2.3. the appliquate requires it to declare which biocidal products are used in the production process, to specify the nature of the use of the biocidal product (i.e. product type 6 or 11), and to provide copies of safety data sheets and relevant statements or test reports from the manufacturer of biocidal products. An external statement from the manufacturer/supplier of the biocidal product or biocidal active substance(s) shall not refer to the actual production process of the Ecomarkled product. External declaration, if any, is used as an assistant to support/verify information about biocide or biocidal active substances or chemical formulation used in a manufacturingprocess.

For an external supplier, the reserved statements (Annex I) shall be

organs by any supplier in the applicant's supply chain.

### **Criterion 3. Recyclability**

Interpretation of Criteria:

The criterion is divided into 4 sub-criteria adapted to the product type

3.1. Non-paper parts of the stationery product, such as metal rods or plastic caps, are easily removed before entering the paper for recycling flow.

Small non-paper items, such as staples or envelope windows, are exempt from this requirement.

3.2. The thultibility criterion applies to all products. The product will be suitable for pushing.

Wet strength substances should not be used except paper carrier bags and wrapping paper, where they will be used only if the product's repulsion is proven. For printed paper products and stationery paper products, the applicant shall declare wet strength agents that we do not have.

Lamination, including polyethylene and/or polypropylene, should only be used to improve the durability of products with a lifespan of at least 1 year. Lamination should not be used in magazines, paper carrier bags or wrapping paper. Double lamination should not be used in any product.

3.3. The criteria for removing adhesives applies to all products. Unless otherwise stated, adhesives are used only if they are proven to be removed with a score of at least 71 points on the EPRC Adhesive Removal Scorecard.

Pre-insurance-sensitive adhesive coatings will only be used if their removal is proven with a minimum positive removal score according to the EPRC Adhesive Removal Scorecard.

The criterion does not apply to: (1) adhesive labels if they account for less than 0.50% of the final product (2) non-adhesive labels (3) water-based adhesives.

Please check: Excel Tool for Calculating Lifting Scores - Scorecard for The Removal of Sticky Applications developed by the European Paper Recycling Council.

3.4. The Deinkility criterion applies to printed paper products and envelopes based on technical paper.

Printed paper products: Deinkilability will be proven by showing that all individual parameters analyzed have a positive score and the final score is at least 51 on the EPRC deinkility scorecard or equivalent.

Envelopes: Deinkility testing is not required, but internal printing should only be used for privacy reasons and for envelopes consisting of paper with a weight of less than 135g/m2 or less than 98% opacity level. The internally printed surface will be less than 80% of the total inner surface except the affixed area and will be printed in light hues.

Products witha lifespan of at least 1 year include: connectors, folders, exercise books, calendars, notebooks and journals. These products will require longer durability due to their long-term use. Lamination is possible under the conditions mentioned above. Double lamination is not allowed.

Please complete the calculations in the EPRC Adhesive Lifting Scorecard and EPRC Deinkility Scorecard to demonstrate compliance with criteria 3.3 and 3.4. (Part C-D: Evaluation and verification form – Criterion 3).

To verify the deinkility requirement, printing technologies or inks must be tested on paper types used in a product. If the ink coverage is equal to or lower than the product being tested, the test certificate is used for prints with the same ink of the same sub-taka type.

Note . According to INGEDE Method 11, deinking depends on the combination of ink, paper type and printing technique used and therefore refers to the last printed product, not ink. The ink manufacturer's deinsibility test results can only be used/requested if a printer considers the type of paper and printing techniques used for use with a particular ink. Otherwise, the test for deinkability must be verified and notified by a printer, since the details of the printed product are not known to the ink manufacturer.

Note The requirements of Criterion 3.2.ve 3.4. To simplify the verification process, it is recommended to use the test results of the sample product(s) similar to the description of the verified product, that is, the test results of the deincling test for the given combination of ink, paper and printing technique.

For total or leakage VOC emissions, as appropriate, the calculation of solvent mass balance will be based on production during the 12-month operation. Solvent mass balance must conform to the specified definition

It is included in Section 7(2) of Annex VII to Directive 2010/75/EU. In the case of a new or rebuilt production facility, calculations will be based on at least three months of representative work of the plant.

In order to monitor total TVOC emissions into the air in waste gases, any stack with a TVOC load of less than 10 kg C/s must be monitored at least once a year according to EN 12619 or its equivalent. In the case of a TVOC load of less than 0.1 kg C/h (on average per year) or a stable TVOC load of less than 0.3 kg of C/h, the viewing frequency can be reduced to one every three years, or the monitoring can be replaced by calculation, provided that data of equivalent scientific quality is provided.

For any stack with a higher TVOC load or equal to 10 kg of C/h, monitoring must be continuous compared to EN 15267-1, EN 15267-2, EN 15267-3 and EN 14181. For continuous measurement, the data represents the daily average over a one-day period based on current hourly or half-hour averages.

Solvent mass balance should be done annually. Written evaluation will be carried out by a responsible staff member. Upon request, the completed emission calculations will be verified, which will be provi deed to the organization subject to evaluation.

#### Criterion 5 - Waste

X = ecomark stationery paper and tons of annual waste paper (including finishings) produced during the printing/production of the paper carrier bag product are divided into tons of paper annually purchased and used for the production of ecomark stationery and paper carrier bag product.

If it is not technically possible to calculate tons of waste paper produced during the production of the ecomark product, calculations are provided regarding the total amount of paper for annual recycling at the applicant plant.

The calculation of the amount of waste paper should include the amount of waste paper resulting from outsourced work, i.e. finishing processes.

In cases where the printing house/conversion house performs the finishing procedures on behalf of another printing press, the amount of waste paper produced in these processes will not be included in the calculation.

#### Criterion 6 — Energy use

#### Criterion Reviews:

Ecomark will have established an energy system management thathandles the field of lean production, all energy consuming devices (including machinery, lighting, air conditioning, cooling). The energy management system is the whole of your energy plantation backwards.

**Documents** required for meet and **data** 

At section C  $\cdot$ D Meet and Bear walker y such as bird neck owner  $\Box$  (page: Declaration- Criterion 6).

**Documents** as eligibility for criteria: documents

- The query adopted for the energy management system is somehow one;
- bird site Right 50001, EN 16247 gold
- to register in the Eco-Management and Audit Program (GOLD) if the EMAS that includes my energy head is documented in the environmental manner or
- In case my head of energy is sufficiently handled by the perseverance of ISO 14001 for production arakt, the bird has certified the site according to ISO 14001 documents.

#### Criterion 7 — Education

Criterion Reviews:

All relevant personnel participating in the daily operation of the production site will be given the necessary information to ensure that Ecomark requirements are fulfilled and continuously improved.

#### Documents required for meet and dessert

Bart C-D: Meet and sober statement from the owner of the bird neck (page: declaration-Criterion 7).

**Documents** in accordance with criteria: documents

Criterion 8 — Availability

Criterion Reviews:

The product will be fit for purpose.

As the quality certificate is available, other sobering systems are eye-to-eye.

Documents required for meet and dessert

- □ Part C-D: Meet and sober statement from the owner of the bird neck (page: declaration-Criterion 8).
- □ documents in accordance with the criteria the owner of the neck can of the at least this:

Criterion 9 and 10 — Information about the product and the information that appears on Ecomark

Criterion Reviews:

The information specified by Criterion 9 is acted upon in the paper bag and the printed paper product.

From underground, how to properly remove the Ecomark logo specified in the Ecomark Logo Is the one that follows the relevant hound:

If the text box labels an important single, I will have the three expressions specified in the criteria document. All other expressions in the box Day, nothing.

Documents required for meet and dessert

Part C-D: Meet and sober fakni bird favorite owner Declaration (page: declaration-Criterion 9 and 10).

□ documents this that meets the criteria.

An image should be provided to the competent authority along with other closed documents. The image must be saved in one of the standardized graphics file formats, such as the following. I mean, .jpg., .gif.. PMG.

If the logo is placed in the product (cover, footer, etc.) instead of the packaging, the image of this logo should be provided as a supporting information indicating compliance with the requirement.Catalog, magazine, etc.