



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-23040E

Japan EPD Program by SuMPO

Sustainable Management Promotion Organization

14-8, Uchikanda 1-chome, Chiyoda-ku, Tokyo Japan

<https://ecoleaf-label.jp/>



Monochrome Printer ECOSYS PA4500x

KYOCERA Document Solutions Inc.

Functional unit

Per unit of product

System boundary

■ final products intermediate products

Raw material acquisition-Production-Distribution-

Use & maintenance-End-of-Life

Main specifications of the product

Model name : Monochrome Printer

ECOSYS PA4500x

Making Technology :Electrophotographic Printer (EP)

Printng Speed: Monochrome 45 Pages per minute in A4

Priting paper :Maximum Folio (Legal)

Duplex function: Standard

Company Information

KYOCERA Document Solutions Inc.

Quality Assurance Division Reliability Assurance Section 11

TEL : 06-6764-3764

<http://www.kyoceradocumentsolutions.co.jp/>

| | |
|------------------------------|---|
| Registration# | JR-AI-23040E |
| PCR number | PA-590000-AI-05 |
| PCR name | Imaging input and/or output equipment |
| Publication date | 2/14/2023 |
| Verification date | 2/3/2023 |
| Verification method | System certificaion |
| Verification# | JV-AI-23040E |
| Expiration date | 2/2/2028 |
| PCR review was conducted by: | |
| Approval date | 1/6/2023 |
| PCR review panel chair | Masayuki Kanzaki Sustainable Management Promotion Organization |

Third party verifier*

Wataru Kawamura

Independent verification of data & declaration in accordance with ISO14025

internal

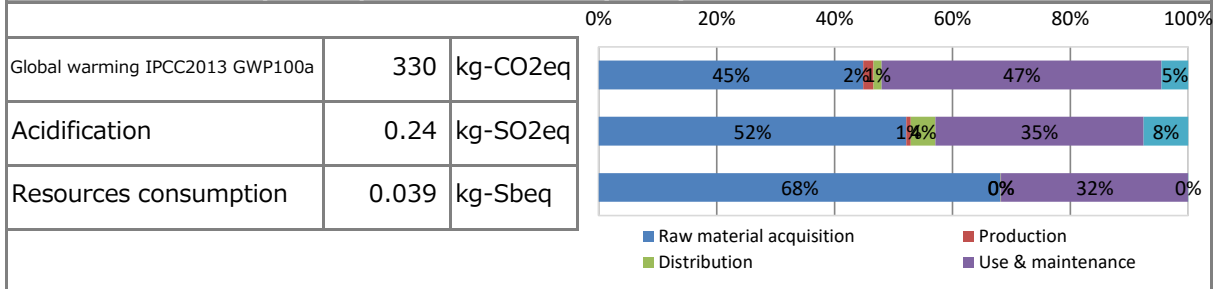
external

*Auditor's name is stated if system certification has been performed.

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1. Results of life cycle impact assessment (LCIA)



| Parameter | stage | Unit | Total | Raw material acquisition | Production | Distribution | Use & maintenance | End-of-Life |
|---------------------------------|-------|-----------------------|---------|--------------------------|------------|--------------|-------------------|-------------|
| Global warming IPCC2013 GWP100a | | kg-CO ₂ eq | 3.3E+02 | 1.5E+02 | 5.9E+00 | 4.7E+00 | 1.6E+02 | 1.5E+01 |
| Acidification | | kg-SO ₂ eq | 2.4E-01 | 1.3E-01 | 1.9E-03 | 1.0E-02 | 8.6E-02 | 1.8E-02 |
| Resources consumption | | kg-Sbeq | 3.9E-02 | 2.6E-02 | 2.5E-05 | 2.0E-05 | 1.2E-02 | 1.3E-05 |

2. Life cycle inventory analysis (LCI)

| Parameter | Value | Unit |
|----------------------------------|---------|------|
| Non-renewable material resources | 1.5E+01 | kg |
| Non-renewable energy resources | 5.7E+03 | MJ |
| Renewable material resources | 9.7E+01 | kg |
| Renewable primary energy | 1.2E+02 | MJ |

3. Material composition

| Material | Value | Unit |
|-------------------------|---------|------|
| Steel | 4.3E+00 | kg |
| SUS | 1.5E-01 | kg |
| Cu | 8.5E-01 | kg |
| Al | 2.6E-01 | kg |
| Glass | 6.8E-02 | kg |
| Thermoplastics resin | 8.2E+00 | kg |
| Thermosetting resin | 1.1E-01 | kg |
| Rubber | 1.8E-02 | kg |
| Paper | 4.0E+00 | kg |
| Assembled circuit board | 1.0E+00 | kg |
| Medium-sized motor | 5.0E-01 | kg |

5. Additional explanation

- Product destination: Japan
- Calculation method of use stage (scenario)
 - ① Expected usage period: five years
 - ② Estimated number of sheets used: Monocrome 297,600
 - ③ The impact of printing paper is not included
- Products selected in the scenario used for inventory calculation : Multifunction device (EP)
- Conformed to the International ENERGY STAR® Ver3.0 Program
- Consumables will be shipped directly from the factory to the country of sale separately from the product body and all of them are accounted for in the use and maintenance



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6-1. Supplementary environmental information

- Conformed to the International ENERGY STAR® Ver3.0 Program
- Manufactured at ISO14001 certified factories.
- Halogenated flame retardants are not used in Plastic housing and outer package.

7. Assumptions of secondary data used

IDEA v2.1.3 and Japan EPD Program by SuMPO Registry data v1.13

8. Remarks

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- For data quantification, please refer to PCR and Rules on quantification and declaration.
- Comparative assertion is permitted only when Rules on quantification and declaration are satisfied.
(Reference URL : <https://ecoleaf-label.jp/regulation/>)

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