



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-24112E

Japan EPD Program by SuMPO

Sustainable Management Promotion Organization

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

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

KONICAMINOLTA ,INC.

bizhub C451i



(Photo : Mounted option-unit(PC-216) is not included in the calculation.)

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 : bizhub C451i

- Marking technologies : Electrophotographic Printer (EP)
- Printing speed(A4) : Monochrome 45 ppm
Color 45 ppm

- Printing paper : Maximum A3
- Duplex function : Standard

Company Information

Please direct any inquiries or comments to e-mail: eco-support@konicaminolta.com

| | |
|------------------------------|---|
| Registration# | JR-AI-24112E |
| PCR number | PA-590000-AI-08 |
| PCR name | Imaging input and/or output equipment |
| Publication date | 6/10/2024 |
| Verification date | 5/17/2024 |
| Verification method | System certificaion |
| Verification# | JV-AI-24112 |
| Expiration date | 5/16/2029 |
| PCR review was conducted by: | |
| Approval date | 9/1/2023 |
| PCR review panel chair | Masayuki Kanzaki (Sustainable Management Promotion Organization) |

Third party verifier*

Kazuo Naitou

Independent verification of data & declaration in accordance with ISO14025

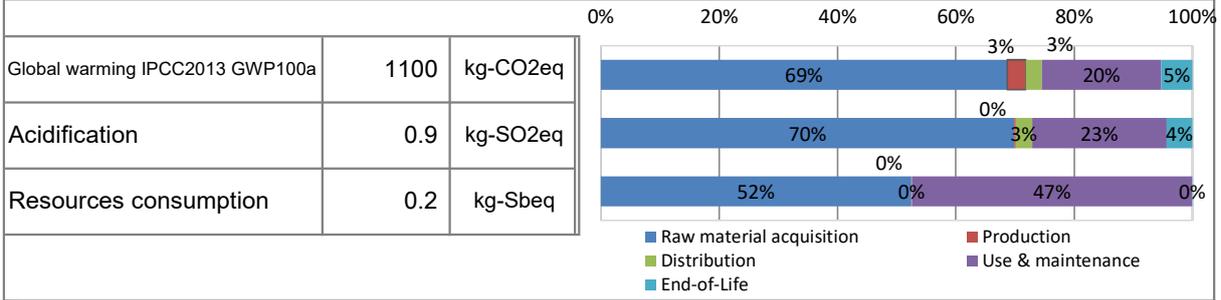
internal external

*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 | 1.1E+03 | 7.9E+02 | 3.6E+01 | 3.1E+01 | 2.3E+02 | 6.1E+01 |
| Acidification | | kg-SO ₂ eq | 8.6E-01 | 6.0E-01 | 2.2E-03 | 2.4E-02 | 1.9E-01 | 3.8E-02 |
| Resources consumption | | kg-Sbeq | 1.8E-01 | 9.6E-02 | 1.1E-04 | 1.2E-04 | 8.7E-02 | 8.1E-05 |

2. Life cycle inventory analysis (LCI)

| Parameter | Value | Unit |
|----------------------------------|---------|------|
| Non-renewable material resources | 7.8E+01 | kg |
| Renewable material resources | 1.6E+02 | kg |
| | | |
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3. Material composition

| Material | Value | Unit |
|-------------------------|---------|------|
| Steel | 4.7E+01 | kg |
| SUS | 7.1E-01 | kg |
| Al | 8.1E-01 | kg |
| Other metals | 2.8E+00 | kg |
| Glass | 2.2E+00 | kg |
| Thermoplastics resin | 3.6E+01 | kg |
| Wood | 5.5E+00 | kg |
| Paper | 8.3E+00 | kg |
| Rubber | 5.6E-01 | kg |
| Assembled circuit board | 4.6E+00 | kg |
| Medium-sized motor | 4.9E+00 | kg |



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5. Additional explanation

- Production destination : Japan
- Calculation method of use stage (Caluclated by the standard scenario for MFP (EP type))
- Expected usage period : five years
- Estimated number of sheets used : 297,600
- The impact of printing paper is not included
- The impact of expendables and Maintenance parts are included in the stage of Use&maintenance.

※ Conformed to the International ENERGY STAR® Ver3.0 Program

6-1. Supplementary environmental information

- ENERGY STAR® Ver.3.0 qualified

7. Assumptions of secondary data used

IDEA v2.1.3 and Ecoleaf Enviromental Labeling Program Registry data v1.10

8. Remarks

- 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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