



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-24115E

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 451i



(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 451i

- Marking technologies : Electrophotographic Printer (EP)
- Printing speed(A4) : Monochrome 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-24115E
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-24115
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

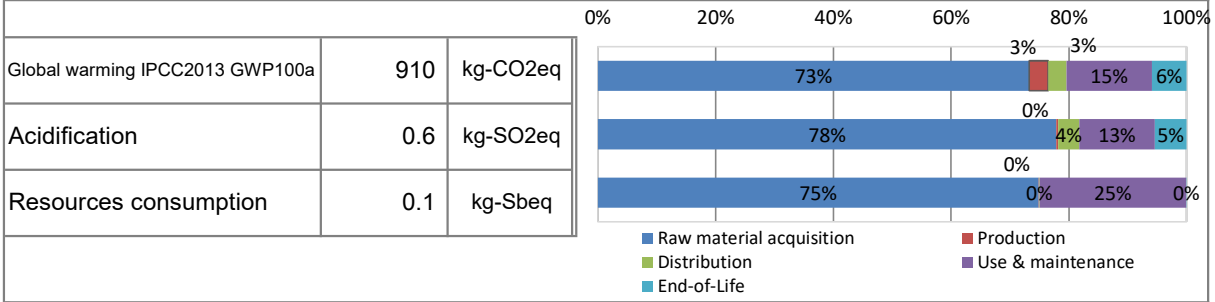
internal external

*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	9.1E+02	6.7E+02	2.9E+01	2.8E+01	1.3E+02	5.4E+01
Acidification		kg-SO ₂ eq	6.2E-01	4.8E-01	1.8E-03	2.2E-02	7.9E-02	3.3E-02
Resources consumption		kg-Sbeq	1.1E-01	8.4E-02	9.0E-05	1.1E-04	2.8E-02	7.3E-05

2. Life cycle inventory analysis (LCI)

Parameter	Unit	Value
Non-renewable material resources	kg	6.7E+01
Renewable material resources	kg	1.2E+02

3. Material composition

Material	Unit	Value
Steel	kg	4.4E+01
SUS	kg	5.7E-01
Al	kg	4.9E-01
Other metals	kg	2.4E+00
Glass	kg	1.7E+00
Thermoplastics resin	kg	3.3E+01
Wood	kg	5.5E+00
Paper	kg	8.3E+00
Rubber	kg	5.4E-01
Assembled circuit board	kg	3.6E+00
Medium-sized motor	kg	4.4E+00



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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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