



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-24341E

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](mailto:eco-support@konicaminolta.com)

Registration#	JR-AI-24341E
PCR number	PA-590000-AI-08
PCR name	Imaging input and/or output equipment
Publication date	10/7/2024
Verification date	9/27/2024
Verification method	System certificaion
Verification#	JV-AI-24341
Expiration date	9/26/2029
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

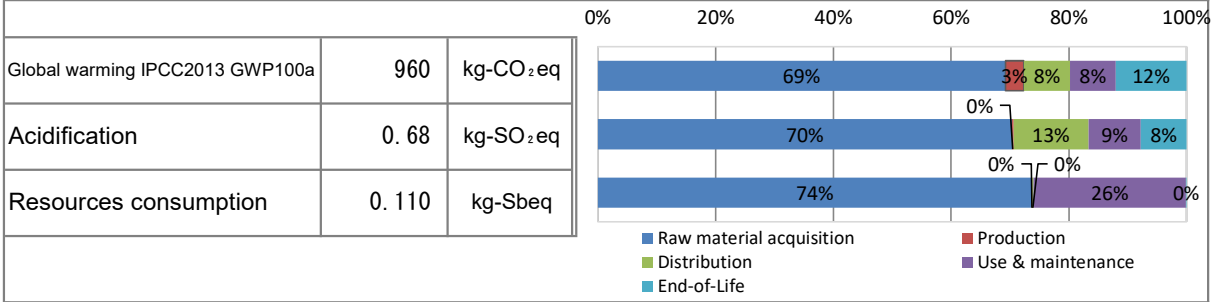
internal       external

\*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 <sub>2</sub> eq	9.6E+02	6.7E+02	3.0E+01	7.6E+01	7.5E+01	1.2E+02
Acidification		kg-SO <sub>2</sub> eq	6.8E-01	4.8E-01	1.8E-03	8.7E-02	6.1E-02	5.3E-02
Resources consumption		kg-Sbeq	1.1E-01	8.4E-02	9.1E-05	3.0E-04	2.9E-02	1.2E-04

**2. Life cycle inventory analysis (LCI)**

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

**3. Material composition**

Material	Value	Unit
Steel	4.4E+01	kg
SUS	5.7E-01	kg
Al	4.9E-01	kg
Other metals	2.4E+00	kg
Glass	1.7E+00	kg
Thermoplastics resin	3.3E+01	kg
Wood	5.5E+00	kg
Paper	8.3E+00	kg
Rubber	5.4E-01	kg
Assembled circuit board	3.5E+00	kg
Medium-sized motor	4.4E+00	kg



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## 5. Additional explanation

- Production destination : EU
- Calculation method of use stage (Caluclated by the standard scenario for PRINTER (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

## 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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