

RICOH COMPANY,LTD

Color MFP (Electrophotography)



IM C4510SD (for NA)



Functional unit

Per product

System boundary

■ final products □ intermediate products

Raw material acquisition, Production, Distribution,
Use & maintenance, End-of-Life

Main specifications of the product

Product name: IM C4510SD for NA

Main specifications:

Color MFP (Electrophotography)

Print Speed : Monochrome 45ppm ,Color 45ppm (LT)

Maximum Paper Size : A3

Function: Print /Copy /Scan

Included Units in Assessment : Automatic Reversing

Document Feeder, Automatic Duplexing Unit

Company Information

RICOH COMPANY,LTD

Tel:(03) 3777-8111

Registration#	JR-AI-24480E
PCR number	PA-590000-AI-08
PCR name	Imaging input and/or output equipment
Publication date	5/1/2025
Verification date	12/19/2024
Verification method	System certificaion
Verification#	JV-AI-24480
Expiration date	12/18/2029
PCR review was conducted by:	
Approval date	9/1/2023
PCR review panel chair	Masayuki Kanzaki (SuMPO)

Third party verifier*

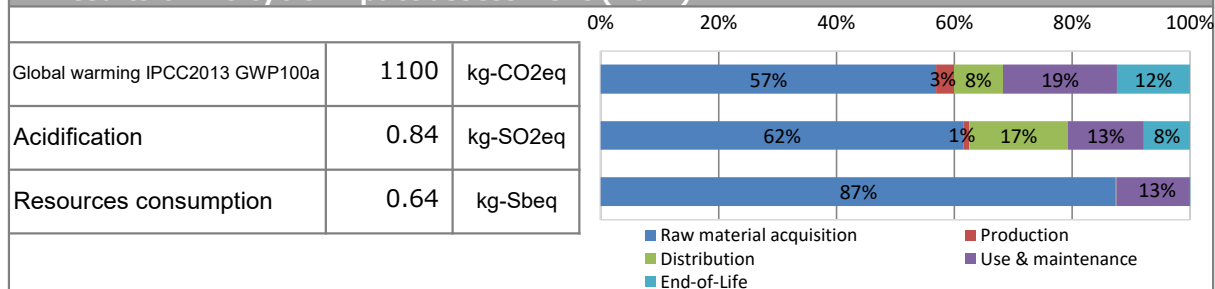
Hiroyuki Uchida

Independent verification of data & declaration in
accordance with ISO14025

☐ internal ☒ external

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

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	6.1E+02	3.3E+01	8.9E+01	2.1E+02	1.3E+02
Acidification		kg-SO ₂ eq	8.4E-01	5.2E-01	8.5E-03	1.4E-01	1.1E-01	6.6E-02
Resources consumption		kg-Sbeq	6.4E-01	5.6E-01	1.5E-04	3.8E-04	8.0E-02	5.6E-05

2. Life cycle inventory analysis (LCI)

Parameter	Unit	Unit
Non-renewable material resources	8.8E+01	kg
Renewable material resources	1.1E+02	kg

3. Material composition

Material	Unit	Unit
SUS	3.0E+00	kg
Aluminum	1.4E+00	kg
Ordinary steel	4.6E+01	kg
Other metals	3.3E+00	kg
Thermoplastic resin	4.3E+01	kg
Thermosetting resin	7.9E-01	kg
Glass	2.3E+00	kg
Rubber	2.5E-01	kg
Paper	1.2E+01	kg
Lubricant	7.7E-03	kg
Mounting circuit board	2.8E+00	kg
Wood	9.1E+00	kg



SuMPO EPD

Type III Environmental Declaration (EPD)

Registration number : JR-AI-24480E

Japan EPD Program by SuMPO

Sustainable Management Promotion Organization
14-8, Uchikanda 1-chome, Chiyoda-ku, Tokyo Japan
<https://ecoleaf-label.jp/>

*Data derived from LCA and not assigned to the impact categories of LCIA

5. Additional explanation

Products selected in the scenario used for load calculation

--MFP (EP)

- Product destination: NA
- Expected usage period: 5 years
- Estimated number of sheets: 297,600 sheets ※

※Apply the number of sheets according to the actual usage conditions based on the product performance

※Compatible with International Energy Star Program Ver.3.0

- The load on the image output medium (printing paper) is not included.

6-1. Supplementary environmental information

Compliant with the International Energy Star Program Ver.3.0. It also complies with the European RoHS Directive.

Assembly production of this product and production of the main parts, photoconductor and toner, are carried out at an ISO14001 certified factory.

Certification number: JQA-E-70001

Certification number: EMS646026

<https://jp.ricoh.com/sustainability/environment/management/iso>

7. Assumptions of secondary data used

IDEA v2.1.3, and registered data of Japan EPD Program by SuMPO v1.13 are used.

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/>)

Registration number : JR-AI-24480E