

RICOH COMPANY,LTD

Color MFP (Electrophotography)

**RICOH**  
imagine. change.

# IM C4510SD (for EU)



## 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 EU

Main specifications:

Color MFP (Electrophotography)

Print Speed : Monochrome 45ppm ,Color 45ppm (A4)

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-24483E                          |
| PCR number                   | PA-590000-AI-08                       |
| PCR name                     | Imaging input and/or output equipment |
| Publication date             | 9/1/2025                              |
| Verification date            | 12/20/2024                            |
| Verification method          | System certificaion                   |
| Verification#                | JV-AI-24483                           |
| Expiration date              | 12/19/2029                            |
| PCR review was conducted by: |                                       |
| Approval date                | 9/1/2023                              |
| PCR review panel chair       | Masayuki Kanzaki<br>(SuMPO)           |

## Third party verifier\*

Hiroyuki Uchida

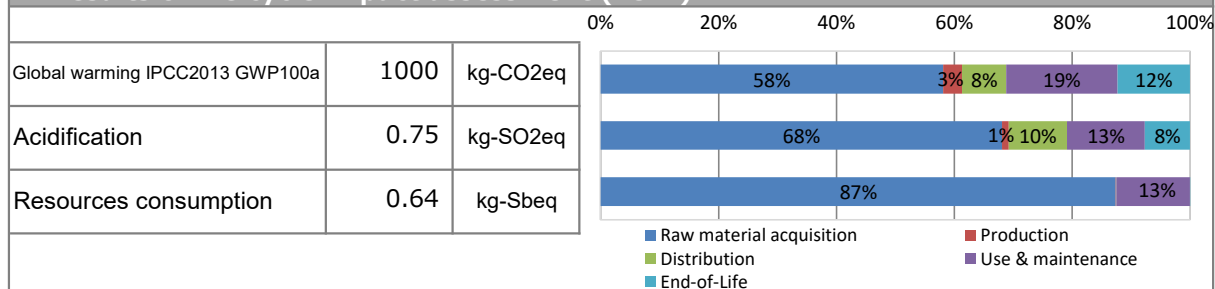
Independent verification of data & declaration in  
accordance with ISO14025

☐ internal ☒ external

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

Registration number : JR-AI-24483E

## 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 | 1.0E+03 | 5.9E+02                  | 3.3E+01    | 7.7E+01      | 1.9E+02           | 1.3E+02     |
| Acidification                   |       | kg-SO <sub>2</sub> eq | 7.5E-01 | 5.1E-01                  | 8.5E-03    | 7.4E-02      | 1.0E-01           | 5.8E-02     |
| Resources consumption           |       | kg-Sbeq               | 6.4E-01 | 5.6E-01                  | 1.5E-04    | 3.2E-04      | 8.0E-02           | 5.3E-05     |

## 2. Life cycle inventory analysis (LCI)

| Parameter                        | Unit    | Unit |
|----------------------------------|---------|------|
| Non-renewable material resources | 8.7E+01 | kg   |
| Renewable material resources     | 1.0E+02 | kg   |

## 3. Material composition

| Material               | Unit    | Unit |
|------------------------|---------|------|
| SUS                    | 3.0E+00 | kg   |
| Aluminum               | 1.5E+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                  | 2.4E+00 | kg   |
| Rubber                 | 2.5E-01 | kg   |
| Paper                  | 1.7E+01 | kg   |
| Lubricant              | 7.8E-03 | kg   |
| Mounting circuit board | 2.5E+00 | kg   |
| Wood                   | 2.8E-01 | kg   |



SuMPO EPD

Type III Environmental Declaration (EPD)

Registration number : JR-AI-24483E

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: EU
- 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-24483E