

RICOH
imagine. change.

RICOH COMPANY,LTD

Black and White MFP (Electrophotography)

IM 4510 (for NA)



※The inner 1-bin tray shown in the image is not included in the LCA calculation scope of the relevant EPD.

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 4510 (for NA)
Main specifications:
MFP (Electrophotography)
Print Speed : Monochrome 45ppm (LT)
Maximum Paper Size : A3
Function: Print /Copy /Scan
Included Units in Assessment : Automatic Reversing
Document Feeder, Automatic Duplexing Unit

Registration#	JR-AI-25337E
PCR number	PA-590000-AI-08
PCR name	Imaging input and/or output equipment
Publication date	30 Apr 2026
Verification date	7 Nov 2025
Verification method	System certification
Verification#	JV-AI-25337
Expiration date	6 Nov 2030

PCR review was conducted by:

Approval date	1 Sep 2023
PCR review panel chair	Masayuki Kanzaki (SuMPO)

Third party verifier*

Hiroyuki Uchida

Independent verification of data & declaration in accordance with ISO14025

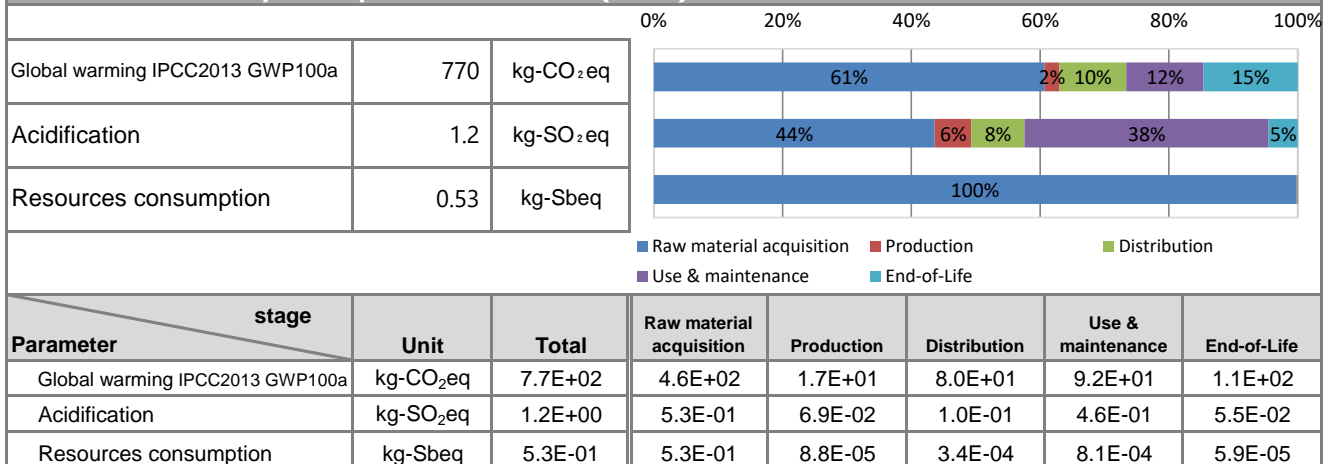
internal external

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

Company Information

RICOH COMPANY,LTD
<https://www.rioh.co.jp/>

1. Results of life cycle impact assessment (LCIA)



2. Life cycle inventory analysis (LCI)

Parameter	Value	Unit
Non-renewable material resources	7.3E+01	kg
Renewable material resources	8.7E+01	kg

3. Material composition

Material	Value	Unit
SUS	4.8E+00	kg
Aluminum	8.0E-01	kg
Ordinary steel	3.6E+01	kg
Other metals	5.8E+00	kg
Thermoplastic resin	3.6E+01	kg
Thermosetting resin	1.4E+00	kg
Glass	1.9E+00	kg
Rubber	7.6E-01	kg
Paper	1.2E+01	kg
Lubricant	1.5E-02	kg
Mounting circuit board	9.1E-01	kg
Wood	9.0E+00	kg
Other	3.7E-02	kg



5. Additional explanation

Products selected in the scenario used for load calculation

--MFP (Electrophotography)

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

※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 , BSI-EMS765926

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

7. Assumptions of secondary data used

IDEA v3.1.0, and registered data of Japan EPD Program by SuMPO v1.15 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/>)