

RICOH COMPANY,LTD

Color MFP (Electrophotography)


  
 imagine. change.

# RICOH IM C431F



## 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: RICOH IM C431F  
 Main specifications:  
 Color MFP (Electrophotography)  
 Print Speed : 43 prints/minute (A4)  
 Maximum Paper Size : A4  
 Included Units in Assessment : Automatic Reversing  
 Document Feeder, Automatic Duplexing Unit

## Company Information

RICOH COMPANY,LTD

[Tel:\(03\) 3777-8111](tel:03-3777-8111)

Registration#	JR-AI-24377E
PCR number	PA-590000-AI-08
PCR name	Imaging input and/or output equipment
Publication date	1/17/2025
Verification date	11/26/2024
Verification method	System certificaion
Verification#	JV-AI-24377
Expiration date	11/25/2029
<b>PCR review was conducted by:</b>	
Approval date	9/1/2023
PCR review panel chair	Masayuki Kanzaki (SuMPO)

## Third party verifier\*

Hiroyuki Uchida

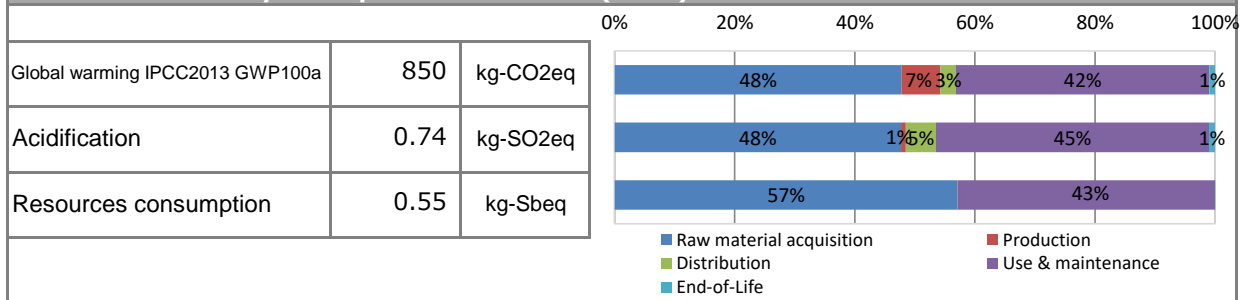
Independent verification of data & declaration in accordance with ISO14025

internal     external

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

Registration number : JR-AI-24377E

### 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	8.5E+02	4.1E+02	5.5E+01	2.2E+01	3.6E+02	8.3E+00
Acidification		kg-SO <sub>2</sub> eq	7.4E-01	3.5E-01	5.9E-03	3.7E-02	3.4E-01	7.5E-03
Resources consumption		kg-Sbeq	5.5E-01	3.1E-01	1.0E-04	9.3E-05	2.3E-01	2.0E-05

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

Parameter	Value	Unit
Non-renewable material resources	5.4E+01	kg
Renewable material resources	1.2E+02	kg

### 3. Material composition

Material	Value	Unit
SUS	1.2E+00	kg
Aluminum	5.7E-01	kg
Ordinary steel	2.0E+01	kg
Other metals	2.0E+00	kg
Thermoplastic resin	2.4E+01	kg
Thermosetting resin	2.9E-01	kg
Glass	1.1E+00	kg
Rubber	6.6E-01	kg
Paper	8.3E+00	kg
Lubricant	2.3E-03	kg
Mounting circuit board	1.7E+00	kg
Wood	1.9E-04	kg



\*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

--Multifunction device (EP)

- Product destination: JP
- Expected usage period: 5 years
- Estimated number of sheets:268,800 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

Certification number: SGS-CN18/20330

<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/>)