Sumpose
 Sumpose
 Japan EPD Program by Sumpo

 Sumpose
 Sumpose
 Sumpose

 VERIFIED
 Sumpose
 Type III Environmental Declaration (EPD)14-8, Uchikanda 1-chome, Chiyoda-ku, Tokyo Japan

 Registration number :
 JR-AI-24486E
 https://ecoleaf-label.jp/

RICOH COMPANY, LTD

RICOH

imagine. change.

Color MFP (Electrophotography)

RICOH IM C4500F CE



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 C4500F CE Product destination: JPN Main specifications: Color MFP (Electrophotography) Print Speed : 45 prints/minute (A4) Maximum Paper Size : A3 Included Units in Assessment : Automati Document Feeder, Automatic Duplexing Unit

Registration#	JR-AI-24486E			
PCR number	PA-590000-AI-08			
PCR name	Imaging input and/or output equipment			
Publication date	1/15/2025			
Verification date	12/6/2024			
Verification method	System certificaion			
Verification#	JV-AI-24486			
Expiration date	12/5/2029			
PCR review was conducted by:				
Approval date	9/1/2023			
PCR review	Masayuki Kanzaki			
panel chair	(SuMPO)			
Third party verifier*				

Hiroyuki Uchida

Independent verification of data & declaration in accordance with ISO14025

Company Information

RICOH COMPANY,LTD Tel:(03) 3777-8111 *Auditor's name is stated if system certification has been performed.

external

Registration number : JR-AI-24486E

□internal



https://ecoleaf-label.jp/

1. Results of life cycle impact assessment (LCIA)								
			0%	20% 4	0% 60	0% 80%	6 100%	
Global warming IPCC2013 GWP100a	510	kg-CO2eq		42%	<mark>6%</mark> 4%	44%	<mark>4%</mark>	
Acidification	0.48	kg-SO2eq		50%	2 <mark>%</mark> 16	5% 28	% <mark>5%</mark>	
Resources consumption	0.32	kg-Sbeq	68%		3	32%		
Raw material acquisition Production Distribution Use & maintenance End-of-Life End-of-Life								
stage Parameter	Unit	Total	Raw material acquisition	Production	Distribution	Use & maintenance	End-of-Life	
Global warming IPCC2013 GWP100a	kg-CO ₂ eq	5.1E+02	2.1E+02	3.0E+01	2.3E+01	2.3E+02	2.2E+01	
Acidification	kg-SO ₂ eq	4.8E-01	2.4E-01	9.6E-03	7.6E-02	1.3E-01	2.2E-02	
Resources consumption	kg-Sbeq	3.2E-01	2.2E-01	1.4E-04	9.5E-05	1.0E-01	4.9E-05	

2. Life cycle inventory analysis (LCI)					
Parameter		Unit			
Non-renewable material resources	2.1E+01	kg			
Renewable material resources	7.2E+01	kg			

3. Material composition					
Material		Unit			
SUS	2.1E+00	kg			
Aluminum	1.3E+00	kg			
Ordinary steel	6.1E+01	kg			
Other metals	4.0E+00	kg			
Thermoplastic resin	5.3E+01	kg			
Thermosetting resin	1.0E+00	kg			
Glass	2.2E+00	kg			
Rubber	2.6E-01	kg			
Paper	1.1E+01	kg			
Lubricant	7.0E-03	kg			
Mounting circuit board	2.4E+00	kg			
Wood	6.7E-04	kg			
Silica gel	2.7E+00	kg			

D

Japan EPD Program by SuMPO Sustainable Management Promotion Organization



ERIFIED Type III Environmental Declaration (EPD)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: JPN

• Expected usage period: 5 years

- Estimated number of sheets:297600 sheets \times

** 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.

-This product uses reused parts to reduce the environmental impact. It is not included at the raw material acquisition stage in the LCA

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

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-24486E