



✓ Third party verified

## Environmental Product Declaration

In Conformance with  
ISO14025 | ISO14040 | ISO14044

**RICOH**  
imagine. change.

**PFU Limited**

# RICOH SP-2240N



Registration number  
SuMPO-EPD-2601-67-1

Verification date  
2026 /1/8

Publication date  
2026/6/17

Expiration date  
2031/1/7

EPD type  
Single Product EPD

\* First publication date

Additional standards in conformance  
Not Applicable

EPD can be updated or withdrawn during the validity period. To confirm the validity of this EPD, check the following website:  
<https://ecoleaf-label.jp/epd/search>

## Environmental Product Declaration for RICOH SP-2240N

## ● General Information

### > Programme

Programme name	SuMPO EPD Japan
Programme operator	Sustainable Management Promotion Organization (SuMPO)
Address	KANDA SQUARE GATE 4F 14-8, Uchikanda 1-chome, Chiyoda-ku, Tokyo, 101-0047, Japan
Website	<a href="https://ecoleaf-label.jp">https://ecoleaf-label.jp</a>

### > GPI and PCR

GPI	SuMPO EPD Japan General Program Instructions v.2.1.1
PCR name	Imaging input and/or output equipment
PCR registration number	PA-590000-AI-08
PCR publication date	09/01/2023
PCR review panel chair	Masayuki Kanzaki (SuMPO)
PCR valid until	08/31/2028
PCR issuer	Sustainable Management Promotion Organization (SuMPO)

### > Verification

Verification Type	Third-party verification in conformance with ISO14025		
	<input type="checkbox"/> Internal	<input checked="" type="checkbox"/> External	
	<input checked="" type="checkbox"/> Third-party verification by individual verifier	<input type="checkbox"/> Third-party verification by verification body	<input type="checkbox"/> Third-party verification by system certification
Verifier	Yasuo Koseki (Koseki Environmental Office)		

### > Standards

Standards in conformance with;	<input checked="" type="checkbox"/> ISO14040:2006	<input checked="" type="checkbox"/> ISO14044:2006	<input type="checkbox"/> ISO14067:2018
	<input checked="" type="checkbox"/> ISO14025:2006	<input type="checkbox"/> ISO21930:2007	<input type="checkbox"/> ISO21930:2017
	<input type="checkbox"/> EN15804+A2	<input type="checkbox"/> EN50693:2019	<input type="checkbox"/> ISO/IEC63366:2025

EPD owner is responsible for the information contained in the EPD and for environmental claims related to the information. For any inquiries or requests regarding the content of the EPD, please contact the EPD owner.

EPDs are comparable only if they comply with this document, use the same sub-PCR where applicable, include all relevant information and are based on equivalent scenarios. Comparability of EPDs is limited to those applying a functional unit.

The LCIA results are relative expressions and do not predict impacts on category endpoints, the exceedance of thresholds, safety margins or risks.

When using weighted averages for calculation, the life cycle impact assessment results, life cycle inventory analysis-related information, waste-related information, and environmental information on output flows do not correspond to information about a specific product.

## ● EPD Owner's Information

Name of company and dept.	PFU Limited – Imaging Service & Support
Address	YOKOHAMA i-MARK PLACE, 4-5 Minatomirai 4-chome, Nishi-ku, Yokohama-shi, Kanagawa 220-8567 Japan
Contact	050-3786-0811
LCA practitioner	PFU Limited
Company description	PFU Ltd. was founded in 1960. Building on the expertise cultivated through computer development, we provide image document-related products and services, exemplified by our image scanners, as well as IT infrastructure construction and operational support services that contribute to our customers' peace of mind and security.

## ●Product Information

Product name		RICOH SP-2240N	
Product /model number		RICOH SP-2240N	
Product specification	Mass	4.27kg	Conversion factor -
	Function	A capability to digitize original paper documents into electronic image files suitable for storage, transmission, and processing, primarily within a personal computer environment.	
	Applications	Used for document storage, sharing, and organization, as well as business digitization	
	TS*	-	
Service life	Service life	5 years	
	In-use conditions	<ul style="list-style-type: none"> <li>- Scans per day: 4,000 sheets/day (15 scans/day)</li> <li>- Workdays per month: 20 days/month</li> <li>- Working days per year: 240 days/year</li> <li>- Expected usage period: 5 years</li> <li>- Total scans : 18,000 times (4,800,000 sheets) / 5 years</li> </ul> •Printing paper is not included in the environmental impact	
	reference	Based on PCR, it was set at five years.	
Manufacturing site(s)		Thailand Factory	
Product description		Product Category : Sheet-fed scanner (Without Flat-bed) For Business, for Personal use Scanning Speed : Simplex or Duplex, 40 ppm (80 ipm) Scanning Size : 215.9mm × 355.6mm Scanning Resolutions : 600dpi Scanning Method : CIS	
Website		<a href="https://www.pfu.ricoh.com/">https://www.pfu.ricoh.com/</a>	

\* TS: technical specifications,

## ●Product Content

Product components	Propotion (%)
Ordinary steel	19.5
SUS	2.5
Aluminium	0.0064
Other metals	0.44
Plastic	56.5
Rubber	1.1
Glass	1.3
Others	12.2
Circuit Board	6.5
Packaging materials	Propotion (%)
Plastic	3.0
Paper & Wood	97.0

## ●Biogenic Carbon Content

Item	Content (kg-C)	Content (kg-CO <sub>2</sub> eq)
Biogenic carbon content per product	-	-
Biogenic carbon content in packaging	-	-

Environmental Product Declaration for **RICOH SP-2240N**

## ● LCA-related Information

### > EPD Type Information

EPD type	Product type	<input checked="" type="checkbox"/> Single product EPD	<input type="checkbox"/> Multiple products EPD	<input type="checkbox"/> Industry-wide EPD
	Site type	<input checked="" type="checkbox"/> Single site		<input type="checkbox"/> Multiple sites
	Value	<input checked="" type="checkbox"/> Specific	<input type="checkbox"/> Average	<input type="checkbox"/> Representative <input type="checkbox"/> Worst case
Geographical coverage		United States		
Description of representativeness for multiple-products/sites EPD		-		
Description of variation for multiple-products/sites EPD		-		
Description of products covered in the multiple products EPD		-		

### > LCA Information

Declared unit	Per unit of product		
Mass per declared unit (Conversion factor to mass)	-		
Reference flow (number of products required to fulfil the function)	-		
System boundary	<input type="checkbox"/> Cradle-to-Gate	<input type="checkbox"/> Cradle-to-Gate with options	<input checked="" type="checkbox"/> Cradle-to-Grave
LCA software	MiLCA Ver.3.1.1		
LCI database	IDEA 3.1		
Characterization model	-		
Use of other background data	-		
Secondary data quality	-		
Primary data collection sites	Thailand Factory		
Primary data collection period	Data for the one-year period from August 2024 to July 2025		
Biogenic carbon	<input checked="" type="checkbox"/> 0/0 approach	<input type="checkbox"/> -1/+1 approach	
Information about electricity	Use	<input checked="" type="checkbox"/> Average consumption mix	<input type="checkbox"/> Others
	Type	-	
	Purchase date	-	
	Issuing body	-	

### > Life Cycle Stages

Raw materials acquisition stage	Production stage	Distribution stage	Use stage	End of life stage
■	■	■	■	■

■ : declared stage      - : stage not declared

**> Allocation**

No processes have been subject to allocation.

**> Cut-off rules**

Based on PCR, the following were excluded:

- Loads associated with the transportation process of "parts," "materials," "packaging materials," and "accessories"
- Loads associated with the storage, warehouse management during transportation, sales, and installation processes of the product

**> System Boundary**

The scope of the environmental impact assessment was established based on the PCR.  
The temporal system boundary is 100 years.

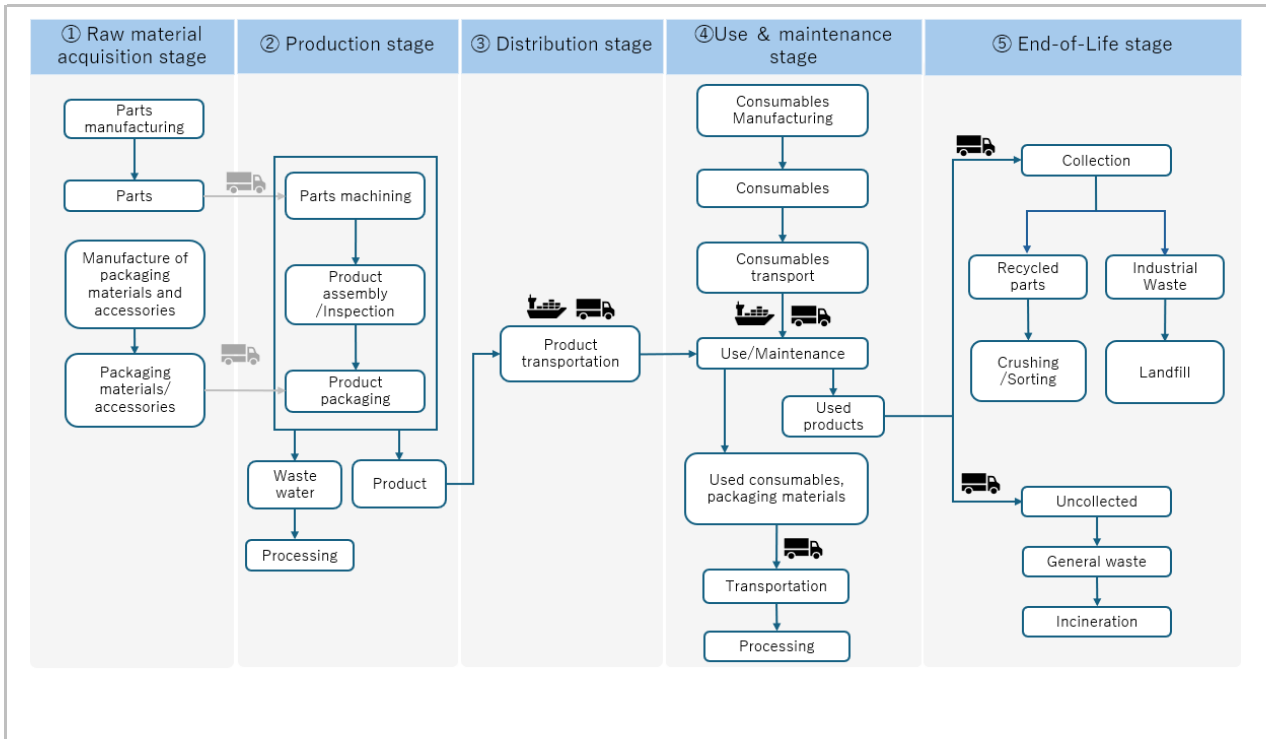
**> Scenario**

For transportation where primary data collection is difficult, we applied the transportation scenario B1. Transportation Distance from the PCR.  
Furthermore, the recycling rates for paper in general, cardboard, and waste paper pulp were calculated based on Advancing Sustainable Materials Management: 2018 Tables and Figures.pdf (EPA public document).

### > Electricity Modelling

The factory's electricity consumption was calculated using actual consumption data from August 2024 to July 2025.

### > Life Cycle System Diagram



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## ● LCA Result

### > LCIA Indicators

		Raw materials acquisition stage	Production stage	Distribution stage	Use stage	End of life stage
GWP	kg-CO <sub>2</sub> eq	3.51E+01	3.82E+00	5.25E+00	4.47E+01	1.85E+00
Ozone layer depletion	kg-CFC-11eq	4.51E-06	6.84E-09	6.58E-11	1.13E-06	9.10E-09
Acidification	kg-SO <sub>2</sub> eq	3.03E-02	2.19E-02	1.21E-02	2.11E-01	1.85E-03
Resource consumption	kg-Sbeq	6.74E-03	1.63E-05	2.20E-05	1.40E-03	4.78E-06

### > LCI

		Raw materials acquisition stage	Production stage	Distribution stage	Use stage	End of life stage
Use of non-renewable resources	kg	2.35E+00	2.49E-02	4.92E-06	1.45E+00	2.21E-03
Use of renewable resources	kg	4.99E+00	1.63E-03	1.26E-06	1.51E+00	9.42E-04

### > Waste Indicators

		Raw materials acquisition stage	Production stage	Distribution stage	Use stage	End of life stage
hazardous waste disposed	kg	-	-	-	-	-
non-hazardous waste disposed	kg	2.94E-01	3.28E-04	4.26E-08	2.33E+00	3.45E+00
Municipal waste, landfill	kg	5.05E-11	4.12E-14	7.01E-17	1.34E-02	3.11E-02
Industrial waste, landfill	kg	2.94E-01	3.28E-04	4.26E-08	2.31E+00	3.42E+00

\*It indicates the amount of waste generated throughout the lifecycle.

### > Output Flow Indicators

		Raw materials acquisition stage	Production stage	Distribution stage	Use stage	End of life stage
Components for reuse	kg	-	-	-	-	-
Materials for recycling	kg	-	-	-	-	-
Material for energy recovery	kg	-	-	-	-	-
Exported energy from waste (energy recovery efficiency $\geq$ 60%)	MJ	-	-	-	-	-
Incineration of waste (energy recovery efficiency < 60%)	Recovered energy	MJ	-	-	-	-
Waste disposed in landfill and energy recoved from landfill gas	Recovered energy	MJ	-	-	-	-

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### > Description of LCA Results

• Overview of Environmental Impact During Product Use: Actual measured power consumption serves as the factual data, calculated according to the PCR scenario.

• Overview of Transportation: For measurable transportation, actual data is used; for other aspects, calculations follow the PCR scenario.

• EPDs may be updated or discontinued if circumstances change. To verify the latest version and validity of an EPD, please check the following:  
<https://ecoleaf-label.jp/epd/>

Since general reference values are used, the specific characteristics of this product may not be reflected. Therefore, please use this result as an approximate value.

## ● Additional Environmental Information

### > Additional Environmental Information not related to LCA

- This product is manufactured in an ISO 14001 certified facility.
- Complies with the International Energy Star Program.
- Complies with the European RoHS Directive.

### > Information on Hazardous Substances

Hazardous materials name	CAS No.	Standards or regulations
-	-	-
-	-	-
-	-	-

## ● Definitions of Terms

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## ● References

- ISO14025:2006 Environmental labels and declarations — Type III environmental declarations — Principles and procedures
- ISO14040:2006 Environmental management - Life Cycle Assessment - Principles and framework
- ISO14044:2006 Environmental management - Life Cycle Assessment - Requirements and guidelines