



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-21051E

Ecoleaf Environmental Labeling Program

Sustainable Management Promotion Organization

2-1, Kaji-cho 2 chome, Chiyoda-ku, Tokyo Japan

<https://ecoleaf-label.jp/>

Black and White Printer (Electrophotography)

RICOH COMPANY,LTD

# PRO 8320

**RICOH**  
imagine. change.



### 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: PRO 8320 Product destination: NA

Main specifications:

Black and White Printer (Electrophotography)

Print Speed : 136 prints/minute (A4)

Maximum Paper Size : 11" x 17"

Included Units in Assessment : Automatic Reversing

Document Feeder, Automatic Duplexing Unit

### Company Information

RICOH COMPANY,LTD

Tel:(03) 3777-8111

Registration#	JR-AI-21051E
PCR number	PA-590000-AI-03
PCR name	Imaging input and/or output equipment
Publication date	4/16/2021
Verification date	4/2/2021
Verification method	System certificaion
Verification#	JV-AI-20121
Expiration date	4/1/2026
<b>PCR review was conducted by:</b>	
Approval date	11/8/2019
PCR review panel chair	Masayuki Kanzaki (SuMPO)

### Third party verifier\*

Yasuo Koseki

Independent verification of data & declaration in  
accordance with ISO14025

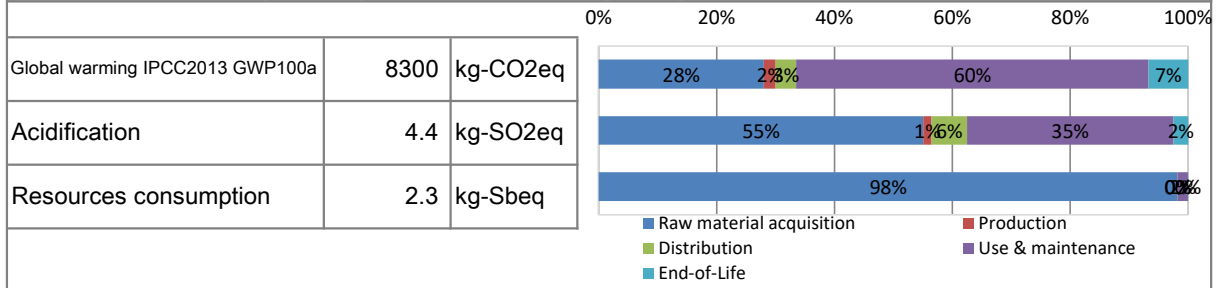
internal       external

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

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**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	8.3E+03	2.3E+03	1.7E+02	2.9E+02	5.0E+03	5.6E+02
Acidification		kg-SO <sub>2</sub> eq	4.4E+00	2.4E+00	5.9E-02	2.7E-01	1.5E+00	1.1E-01
Resources consumption		kg-Sbeq	2.3E+00	2.3E+00	7.0E-04	1.2E-03	3.9E-02	1.8E-04

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

Parameter	Unit	Unit
Non-renewable material resources	5.2E+02	kg
Renewable material resources	6.9E+02	kg

**3. Material composition**

Material	Unit	Unit
SUS	9.3	kg
Aluminum	12.0	kg
Ordinary steel	318.2	kg
Other metals	12.5	kg
Thermoplastic resin	46.9	kg
Thermosetting resin	4.7	kg
Glass	4.3	kg
Rubber	1.4	kg
Paper	32.6	kg
Lubricant	0.1	kg
Mounting circuit board	4.0	kg
Wood	0.0	kg

**5. Additional explanation**

-Products selected in the scenario used for load calculation  
 -Printer (EP)  
 • Product destination: NA ※  
 ※Transportation scenarios are for China, Thailand, and Ricoh Group.from three production sites in Japan, North America, Europe, on transportation routes to the five poles of China, Oceania and Japan transport load calculate the weighted average of transportation activity per kg of product from the total calculated using the annual production volume for each pole .  
 Then, it is used as a transportation unit of calculation.  
 • Expected usage period: 5 years  
 • Estimated number of sheets 11097600 sheets ※  
 ※Compatible with International Energy Star Program Ver.2.0  
 -The load on the image output medium (printing paper) is not included.

\*Data derived from LCA and not assigned to the impact categories of LCIA



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#### 6-1. Supplementary environmental information

Compliant with the International Energy Star Program Ver.2.0. 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

#### 7. Assumptions of secondary data used

IDEA v2.1.3 is used and registration data and JLCA data v1.10 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/>)

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