



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-23125E

Japan EPD Program by SuMPO

Sustainable Management Promotion Organization

14-8, Uchikanda 1-chome, Chiyoda-ku, Tokyo Japan

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

brother
at your side

BROTHER INDUSTRIES, LTD.

Monochrome Laser All-in-One Printer

DCP-L5510DN for North America



Functional unit

Per unit of product

System boundary

■ final products □ intermediate products

Raw material acquisition - Production - Distribution

- Use & maintenance - End-of-Life

Main specifications of the product

Model name: DCP-L5510DN

- Multifunction device (EP method)
- Monochrome
- Printing speed: 48ppm (Letter)
- Maximum document size: A4, Letter
- Print/Copy/Scan/Automatic duplex printing/ADF (Automatic document feeding)
- Product weight: 16.0kg Packaging etc.: 3.4kg
- Wired LAN

* This product is for North America.

Company Information

Brother Industries, Ltd.

TEL: 81-52-824-2511 (Representative)

FAX: 81-52-824-5177

<https://www.brother-usa.com/>

Registration#	JR-AI-23125E
PCR number	PA-590000-AI-07
PCR name	Imaging input and/or output equipment
Publication date	10/11/2023
Verification date	9/26/2023
Verification method	System certificaion
Verification#	JV-AI-23125E
Expiration date	9/25/2028
PCR review was conducted by:	
Approval date	04/24/2023
PCR review panel chair	Masayuki Kanzaki Sustainable Management Promotion Organization

Third party verifier*

Yasuo Koseki

Independent verification of data & declaration in accordance with ISO14025

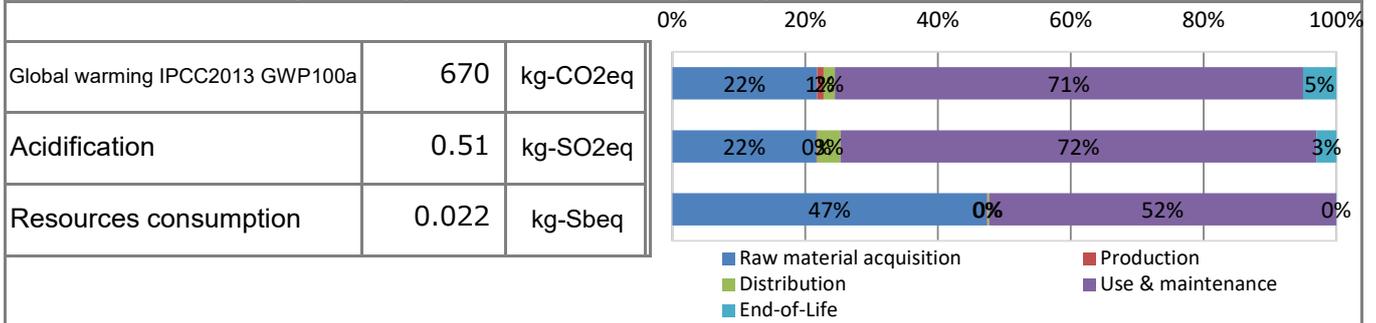
internal external

*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		Total	Raw material acquisition	Production	Distribution	Use & maintenance	End-of-Life
	Unit	Value						
Global warming IPCC2013 GWP100a	kg-CO ₂ eq	6.7E+02	6.7E+02	1.5E+02	6.4E+00	1.1E+01	4.7E+02	3.3E+01
Acidification	kg-SO ₂ eq	5.1E-01	5.1E-01	1.1E-01	6.1E-04	1.8E-02	3.7E-01	1.5E-02
Resources consumption	kg-Sbeq	2.2E-02	2.2E-02	1.0E-02	1.9E-05	4.8E-05	1.1E-02	8.1E-06

2. Life cycle inventory analysis (LCI)

Parameter	Unit	Value
Non-renewable material resources	kg	2.2E+01
Non-renewable energy resources	MJ	9.8E+03
Renewable material resources	kg	9.6E+01
Renewable primary energy	MJ	2.3E+02
Consumption of freshwater	m ³	6.5E-01

3. Material composition

Material	Unit	Value
Steel	kg	3.3E+00
SUS	kg	6.8E-02
Aluminium	kg	1.1E-01
Other metal	kg	0.0E+00
Plastic	kg	1.0E+01
Rubber	kg	1.7E-01
Glass	kg	6.9E-01
Paper and Wood	kg	2.7E+00
Circuit board	kg	7.7E-01
Othres	kg	1.1E+00

5. Additional explanation

Calculation method for usage stage (scenario) : Multifunction device (EP method), Expected use period: 5 years, Assumed usage: 345,600 sheets, Print measuring method (pattern): ISO/IEC 19798, Printing paper is not included in the environmental impact, The applied Energy Star program version is 3.0, This product is for North America.

6-1. Supplementary environmental information

This product and main components are produced in ISO 14001 certified factories.

7. Assumptions of secondary data used

Inventory Database: IDEA v2.1.3, and registered data of Japan EPD Program by SuMPO, JLCA data v1.10 are used.

8. Remarks

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- 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/>)