



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-23347E

Japan EPD Program by SuMPO

Sustainable Management Promotion Organization

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

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



BROTHER INDUSTRIES, LTD.

Monochrome Laser Printer

HL-L2420DW 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: HL-L2420DW

- Printer (EP method)
- Monochrome
- Printing speed: 30ppm (Letter)
- Maximum document size: A4, Letter
- Print/Automatic duplex printing
- Product weight: 7.1kg, Packaging etc.: 0.9kg
- Wireless LAN

* This product is for North America.

Company Information

Brother Industries, Ltd.

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<https://global.brother/en>

Registration#	JR-AI-23347E
PCR number	PA-590000-AI-08
PCR name	Imaging input and/or output equipment
Publication date	7/19/2024
Verification date	7/4/2024
Verification method	System certificaion
Verification#	JV-AI-23347E
Expiration date	7/3/2029
PCR review was conducted by:	
Approval date	9/1/2023
PCR review panel chair	Masayuki Kanzaki Sustainable Management Promotion Organization

Third party verifier*

Yasuo Koseki

Independent verification of data & declaration in accordance with ISO14025

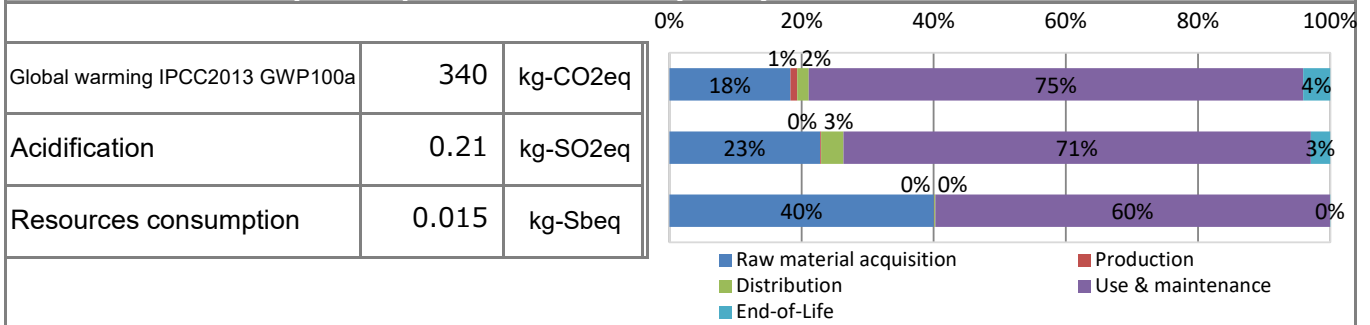
internal external

*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			Raw material acquisition	Production	Distribution	Use & maintenance	End-of-Life
	Unit	Total						
Global warming IPCC2013 GWP100a	kg-CO ₂ eq	3.4E+02		6.2E+01	3.4E+00	5.9E+00	2.5E+02	1.4E+01
Acidification	kg-SO ₂ eq	2.1E-01		4.8E-02	2.5E-04	7.1E-03	1.5E-01	6.2E-03
Resources consumption	kg-Sbeq	1.5E-02		6.2E-03	9.2E-06	2.5E-05	9.2E-03	3.3E-06

2. Life cycle inventory analysis (LCI)

Parameter	Unit	Value
Non-renewable material resources	kg	1.2E+01
Non-renewable energy resources	MJ	5.0E+03
Renewable material resources	kg	3.1E+01
Renewable primary energy	MJ	1.3E+02
Consumption of freshwater	m ³	4.1E-01

3. Material composition

Material	Value	Unit
Steel	1.7E+00	kg
SUS	4.6E-02	kg
Aluminium	7.6E-02	kg
Other metal	0.0E+00	kg
Plastic	4.2E+00	kg
Rubber	1.4E-01	kg
Glass	3.3E-02	kg
Paper and Wood	8.2E-01	kg
Circuit board	3.2E-01	kg
Othres	6.1E-01	kg

5. Additional explanation

Calculation method for usage stage (scenario) : Printer (EP method), Expected use period: 5 years, Assumed usage: 135,000 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/>)