



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-24033E

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 All-in-One Laser Printer

MFC-L2820DW 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: MFC-L2820DW
- Multifunction device (EP method)
 - Monochrome
 - Printing speed: 34ppm (Letter)
 - Maximum document size: A4, Letter
 - Print/Copy/Scan/FAX/Automatic duplex printing/
Automatic document feeding
 - Product weight: 11.5kg, Packaging etc.: 2.8kg
 - Wired/Wireless LAN
- * This product is for North America.

Company Information

Brother Industries, Ltd.
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<https://global.brother/en>

Registration#	JR-AI-24033E
PCR number	PA-590000-AI-08
PCR name	Imaging input and/or output equipment
Publication date	9/18/2024
Verification date	9/3/2024
Verification method	System certificaion
Verification#	JV-AI-24033E
Expiration date	9/2/2029
PCR review was conducted by:	
Approval date	9/1/2023
PCR review panel chair	Masayuki Kanzaki Sustainable Management Promotion Organization

Third party verifier*

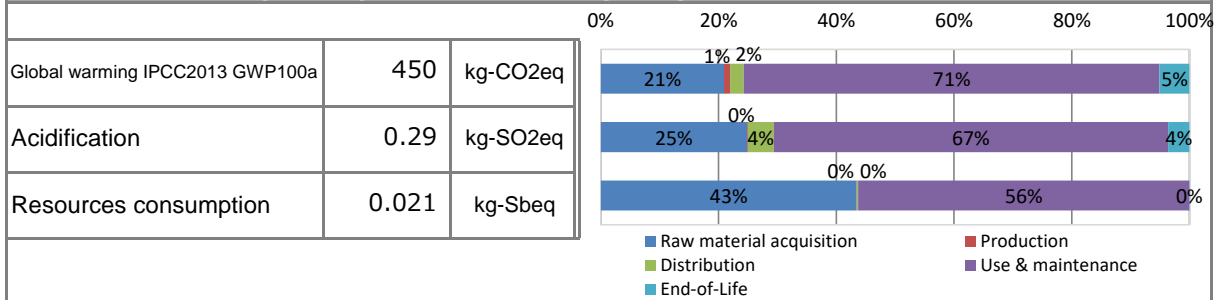
Yasuo Koseki

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	Unit	Total	Raw material acquisition	Production	Distribution	Use & maintenance	End-of-Life
Global warming IPCC2013 GWP100a		kg-CO ₂ eq	4.5E+02	9.4E+01	4.6E+00	1.0E+01	3.2E+02	2.3E+01
Acidification		kg-SO ₂ eq	2.9E-01	7.1E-02	3.2E-04	1.3E-02	1.9E-01	1.0E-02
Resources consumption		kg-Sbeq	2.1E-02	9.2E-03	1.3E-05	4.4E-05	1.2E-02	5.9E-06

2. Life cycle inventory analysis (LCI)

Parameter	Unit	Value
Non-renewable material resources	kg	1.8E+01
Non-renewable energy resources	MJ	6.7E+03
Renewable material resources	kg	4.3E+01
Renewable primary energy	MJ	1.7E+02
Consumption of freshwater	m ³	5.5E-01

3. Material composition

Material	Value	Unit
Steel	2.5E+00	kg
SUS	6.4E-02	kg
Aluminium	7.6E-02	kg
Other metal	0.0E+00	kg
Plastic	7.1E+00	kg
Rubber	1.4E-01	kg
Glass	6.7E-01	kg
Paper and Wood	2.3E+00	kg
Circuit board	4.5E-01	kg
Othres	8.9E-01	kg

5. Additional explanation

Calculation method for usage stage (scenario) : Multifunction device(EP method), Expected use period: 5 years, Assumed usage: 172,800 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 v1.13 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/>)