



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-24158E

Japan EPD Program by SuMPO

Sustainable Management Promotion Organization
14-8, Uchikanda 1-chome, Chiyoda-ku, Tokyo Japan
<https://ecoleaf-label.jp/>



Monochrome All-in-One Laser Printer

MFC-L2900DWXL for North America

BROTHER INDUSTRIES, LTD.



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-L2900DWXL

- Multifunction device (EP method)
- Monochrome
- Printing speed: 36ppm (Letter)
- Maximum document size: A4, Letter
- Print/Copy/Scan/FAX/Automatic duplex printing/
Automatic document feeding
- Product weight: 12.6kg, Packaging etc.: 2.9kg
- 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-24158E
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-24158E
Expiration date	9/2/2029
PCR review was conducted by:	
Approval date	09/01/2023
PCR review panel chair	Masayuki Kanzaki Sustainable Management Promotion Organization

Third party verifier*

Yasuo Koseki

Independent verification of data & declaration in accordance with ISO14025

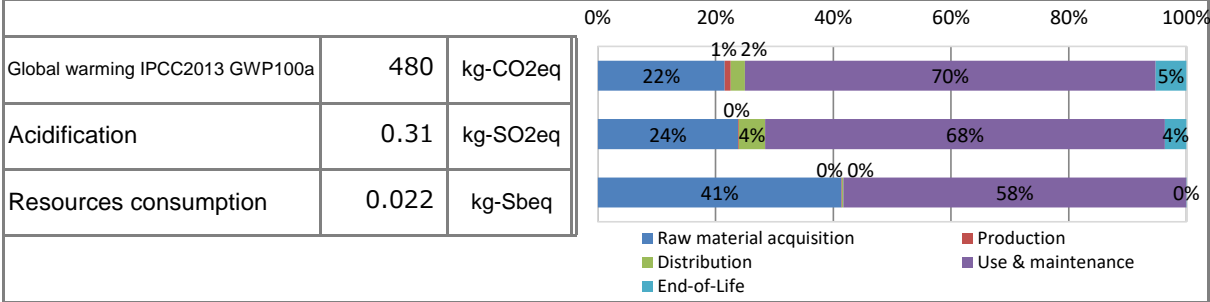
internal external

*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	4.8E+02	1.0E+02	5.9E+00	1.1E+01	3.3E+02	2.5E+01
Acidification		kg-SO ₂ eq	3.1E-01	7.4E-02	4.5E-04	1.4E-02	2.1E-01	1.1E-02
Resources consumption		kg-Sbeq	2.2E-02	9.2E-03	2.0E-05	4.8E-05	1.3E-02	6.4E-06

2. Life cycle inventory analysis (LCI)

Parameter	Unit	Unit
Non-renewable material resources	1.9E+01	kg
Non-renewable energy resources	7.0E+03	MJ
Renewable material resources	4.7E+01	kg
Renewable primary energy	1.7E+02	MJ
Consumption of freshwater	6.1E-01	m ³

3. Material composition

Material	Unit	Unit
Steel	3.0E+00	kg
SUS	7.6E-02	kg
Aluminium	4.2E-02	kg
Other metal	0.0E+00	kg
Plastic	7.9E+00	kg
Rubber	8.9E-02	kg
Glass	7.1E-01	kg
Paper and Wood	2.3E+00	kg
Circuit board	5.2E-01	kg
Othres	9.1E-01	kg

5. Additional explanation

Calculation method for usage stage (scenario) : Multifunction device(EP method), Expected use period: 5 years, Assumed usage: 192,000 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 v1.13 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/>)