



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-23357E

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 All-in-One Laser Printer

# MFC-L2900DW 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-L2900DW

- 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: 12.1kg, Packaging etc.: 2.9kg
- Wired/Wireless LAN

\* This product is for North America.

## Company Information

Brother Industries, Ltd.

[inml-ecoleaf-jimukyoku@brother.co.jp](mailto:inml-ecoleaf-jimukyoku@brother.co.jp)

<https://global.brother/en>

Registration#	JR-AI-23357E
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-23357E
Expiration date	9/2/2029
<b>PCR review was conducted by:</b>	
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

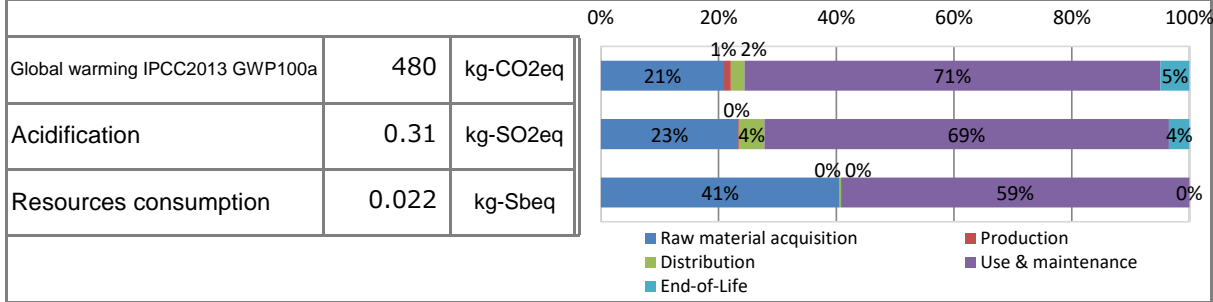
internal       external

\*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 <sub>2</sub> eq	4.8E+02	1.0E+02	5.6E+00	1.1E+01	3.4E+02	2.4E+01
Acidification		kg-SO <sub>2</sub> eq	3.1E-01	7.2E-02	4.1E-04	1.3E-02	2.1E-01	1.1E-02
Resources consumption		kg-Sbeq	2.2E-02	9.0E-03	1.7E-05	4.6E-05	1.3E-02	6.2E-06

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

Parameter	Unit	Unit
Non-renewable material resources	1.9E+01	kg
Non-renewable energy resources	7.1E+03	MJ
Renewable material resources	4.7E+01	kg
Renewable primary energy	1.7E+02	MJ
Consumption of freshwater	6.1E-01	m <sup>3</sup>

**3. Material composition**

Material	Unit	Unit
Steel	2.8E+00	kg
SUS	7.3E-02	kg
Aluminium	4.2E-02	kg
Other metal	0.0E+00	kg
Plastic	7.5E+00	kg
Rubber	1.0E-01	kg
Glass	7.0E-01	kg
Paper and Wood	2.3E+00	kg
Circuit board	5.1E-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/>)