



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-23127E

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 All-in-One Printer

MFC-L5710DW 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-L5710DW

- Recording method: Monochrome EP method
- Facsimile (business model)
- Maximum recording size: A4, Letter
- Maximum document size: A4, Letter
- Super G3
- Product weight: 16.4kg, Packaging etc.: 3.5kg
- Automatic duplex printing
- Wired/Wireless 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-23127E
PCR number	PA-590000-AI-07
PCR name	Imaging input and/or output equipment
Publication date	10/11/2023
Verification date	9/28/2023
Verification method	System certification
Verification#	JV-AI-23127E
Expiration date	9/27/2028
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

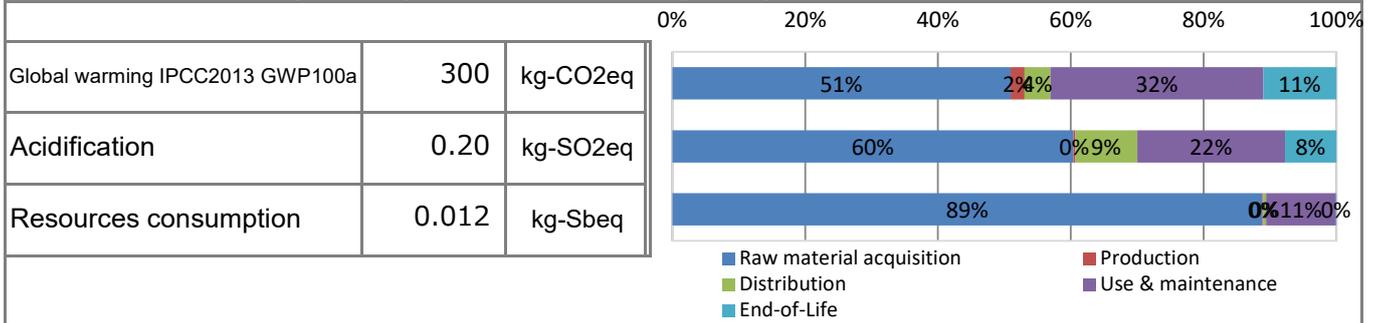
external

* 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	Unit	Total	Raw material acquisition	Production	Distribution	Use & maintenance	End-of-Life
Global warming IPCC2013 GWP100a		kg-CO ₂ eq	3.0E+02	1.6E+02	6.4E+00	1.2E+01	9.8E+01	3.4E+01
Acidification		kg-SO ₂ eq	2.0E-01	1.2E-01	6.1E-04	1.8E-02	4.3E-02	1.5E-02
Resources consumption		kg-Sbeq	1.2E-02	1.1E-02	1.9E-05	5.0E-05	1.3E-03	8.2E-06

2. Life cycle inventory analysis (LCI)

Parameter	Unit
Non-renewable material resources	1.2E+01 kg
Non-renewable energy resources	4.6E+03 MJ
Renewable material resources	3.8E+01 kg
Renewable primary energy	1.2E+02 MJ
Consumption of freshwater	2.9E-01 m ³

3. Material composition

Material	Unit
Steel	3.5E+00 kg
SUS	6.9E-02 kg
Aluminium	1.1E-01 kg
Other metal	0.0E+00 kg
Plastic	1.0E+01 kg
Rubber	1.7E-01 kg
Glass	7.3E-01 kg
Paper and Wood	2.8E+00 kg
Circuit board	8.9E-01 kg
Othres	1.2E+00 kg

5. Additional explanation

Calculation method for usage stage (scenario) : Facsimile (business model), Expected use period: 5 years, Transmission / reception: 48,000 each, Use pattern when measuring power: ITU-T No.1 chart, Printing paper is not included in the environmental impact, 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/>)