EcoLeaf
Type III Environmental Declaration (EPD)
Registration number： JR-AI-23138E

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.

4-in-1 Monochrome Laser Printer

MFC-L5710DN for Europe

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-L5710DN

- Multifunction device (EP method)
- Monochrome
- Printing Speed: 48ppm (A4)
- Maximum document size: A4
- Print/Copy/Scan/FAX/Automatic duplex printing/ Automatic document feeding
- Product weight: 16.1kg, Packaging etc.: 4.0kg
- Wired LAN

* This product is for Europe.

Company Information

Brother Industries, Ltd.
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Registration#	JR-AI-23138E
PCR number	PA-590000-AI-08
PCR name	Imaging input and/or output equipment
Publication date	8/2/2024
Verification date	7/24/2024
Verification method	System certificaion
Verification#	JV-AI-23138E
Expiration date	7/23/2029

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

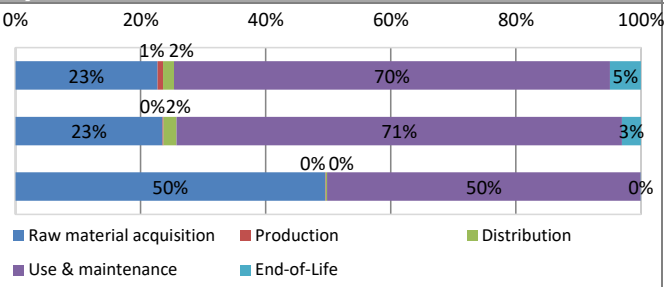
Independent verification of data & declaration in accordance with ISO14025

□internal　■external

*Auditor's name is stated if system certification has been performed.

1. Results of life cycle impact assessment (LCIA)

Global warming IPCC2013 GWP100a	670	kg-CO2eq
Acidification	0.50	kg-SO2eq
Resources consumption	0.022	kg-Sbeq



Parameter \ stage	Unit	Total	Raw material acquisition	Production	Distribution	Use & maintenance	End-of-Life
Global warming IPCC2013 GWP100a	kg-CO_2eq	6.7E+02	1.5E+02	6.1E+00	1.2E+01	4.6E+02	3.3E+01
Acidification	kg-SO_2eq	5.0E-01	1.2E-01	8.1E-04	1.0E-02	3.5E-01	1.5E-02
Resources consumption	kg-Sbeq	2.2E-02	1.1E-02	2.0E-05	5.0E-05	1.1E-02	8.3E-06

2. Life cycle inventory analysis (LCI)

Parameter		Unit
Non-renewable material resources	2.2E+01	kg
Non-renewable energy resources	9.8E+03	MJ
Renewable material resources	9.6E+01	kg
Renewable primary energy	1.8E+02	MJ
Consumption of freshwater	6.6E-01	m^3

3. Material composition

Material		Unit
Steel	3.4E+00	kg
SUS	7.0E-02	kg
Aluminium	1.2E-01	kg
Other metal	0.0E+00	kg
Plastic	1.0E+01	kg
Rubber	1.7E-01	kg
Glass	7.1E-01	kg
Paper and Wood	3.3E+00	kg
Circuit board	8.4E-01	kg
Othres	1.2E+00	kg

5. Additional explanation

Calculation method for usage stage (scenario) : Multifunction device (EP method), Expected use period: 5 years, Assumed usage: 345,600 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 Europe.

6-1. Supplementary environmental information

This product and main compornents 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 v1.15 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/)