EcoLeaf
Type III Environmental Declaration (EPD)
Registration number： JR-AI-24246E

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-L5710DW 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-L5710DW

- Multifunction device(EP method)
- Monochrome
- Printing Speed: 48ppm (A4)
- Maximum paper size ：A4
- Print/Copy/Scan/Fax/Automatic duplex printing Automatic document feeding
- Product weight: 16.4kg, Packaging etc.: 4.0kg
- Wired/Wireless LAN

* This product is for Europe.

Company Information

Brother Industries, Ltd.

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Registration#	JR-AI-24246E
PCR number	PA-590000-AI-08
PCR name	Imaging input and/or output equipment
Publication date	10/11/2024
Verification date	9/30/2024
Verification method	System certificaion
Verification#	JV-AI-24246E
Expiration date	9/29/2029

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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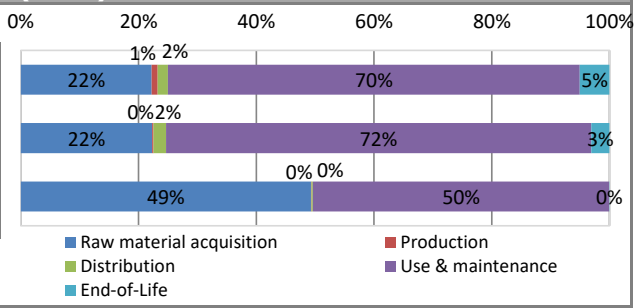
1. Results of life cycle impact assessment (LCIA)

Global warming IPCC2013 GWP100a	670	kg-CO2eq
Acidification	0.49	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	6.6E+00	1.2E+01	4.7E+02	3.4E+01
Acidification	kg-SO_2eq	4.9E-01	1.1E-01	1.0E-03	1.0E-02	3.6E-01	1.5E-02
Resources consumption	kg-Sbeq	2.2E-02	1.1E-02	2.2E-05	5.0E-05	1.1E-02	8.4E-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	9.7E+01	kg
Renewable primary energy	1.9E+02	MJ
Consumption of freshwater	6.7E-01	m3

3. Material composition

Material		Unit
Steel	3.6E+00	kg
SUS	7.0E-02	kg
Aluminium	6.5E-02	kg
Other metal	0.0E+00	kg
Plastic	1.0E+01	kg
Rubber	2.3E-01	kg
Glass	7.1E-01	kg
Paper and Wood	3.3E+00	kg
Circuit board	7.6E-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 v1.17 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/)