EcoLeaf
Type III Environmental Declaration (EPD)
Registration number： JR-AI-23518E

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 Inkjet Printer

MFC-J4540DW 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-J4540DW

- Facsimile (Business model)
- Recording method: IJ method
- Maximum Recording size: A4
- Maximum document size: A4
- G3
- Product weight: 9.7kg　Packaging etc.: 2.3kg
- Automatic duplex printing
- Wired/Wireless LAN

* This product is for Europe.

Registration#	JR-AI-23518E
PCR number	PA-590000-AI-08
PCR name	Imaging input and/or output equipment
Publication date	4/26/2024
Verification date	4/12/2024
Verification method	System certificaion
Verification#	JV-AI-23518E
Expiration date	4/11/2029

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.

Company Information

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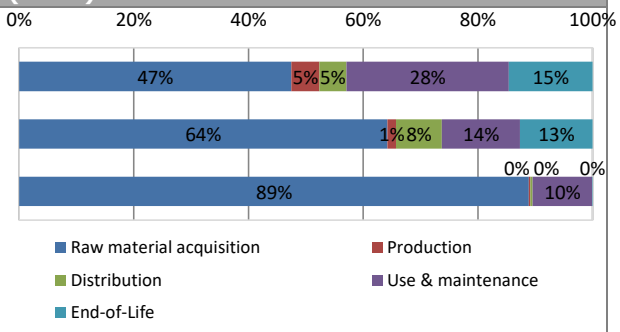
1. Results of life cycle impact assessment (LCIA)

Global warming IPCC2013 GWP100a	150	kg-CO2eq
Acidification	0.077	kg-SO2eq
Resources consumption	0.0077	kg-Sbeq



Parameter \ stage	Unit	Total	Raw material acquisition	Production	Distribution	Use & maintenance	End-of-Life
Global warming IPCC2013 GWP100a	kg-CO_2eq	1.5E+02	7.0E+01	7.2E+00	7.0E+00	4.2E+01	2.2E+01
Acidification	kg-SO_2eq	7.7E-02	4.9E-02	1.1E-03	6.1E-03	1.0E-02	9.7E-03
Resources consumption	kg-Sbeq	7.7E-03	6.8E-03	2.1E-05	3.0E-05	8.0E-04	5.0E-06

2. Life cycle inventory analysis (LCI)

Parameter		Unit
Non-renewable material resources	6.6E+00	kg
Non-renewable energy resources	2.2E+03	MJ
Renewable material resources	1.5E+01	kg
Renewable primary energy	9.0E+01	MJ
Consumption of freshwater	1.4E-01	m^3

3. Material composition

Material		Unit
Steel	1.8E+00	kg
SUS	6.6E-02	kg
Aluminium	7.3E-03	kg
Other metal	4.5E-03	kg
Plastic	6.6E+00	kg
Rubber	5.3E-02	kg
Glass	6.3E-01	kg
Paper and Wood	1.6E+00	kg
Circuit board	2.9E-01	kg
Othres	9.6E-01	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 Europe.

6-1. Supplementary environmental information

This product and main compornents are produced in our 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/)