



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-23517E

Japan EPD Program by SuMPO

Sustainable Management Promotion Organization
14-8, Uchikanda 1-chome, Chiyoda-ku, Tokyo Japan
<https://ecoleaf-label.jp/>

brother
at your side
BROTHER INDUSTRIES, LTD.

4-in-1 Inkjet Printer

MFC-J5740DW 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-J5740DW

- Facsimile (Business model)
- Recording method: IJ method
- Maximum Recording size: A3
- Maximum document size: A4
- Super G3
- Product weight: 18.8kg Packaging etc.: 3.1kg
- Automatic duplex printing
- Wired/Wireless LAN

* This product is for Europe.

Company Information

Brother Industries, Ltd.
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<https://global.brother/en>

Registration#	JR-AI-23517E
PCR number	PA-590000-AI-08
PCR name	Imaging input and/or output equipment
Publication date	4/19/2024
Verification date	4/11/2024
Verification method	System certificaion
Verification#	JV-AI-23517E
Expiration date	4/10/2029

PCR review was conducted by:

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

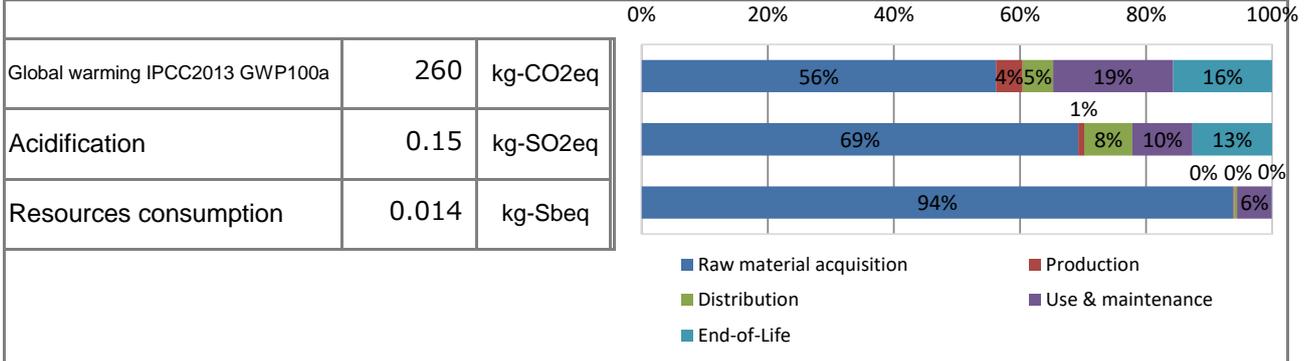
internal external

*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 ₂ eq	2.6E+02	1.5E+02	1.1E+01	1.3E+01	5.0E+01	4.1E+01
Acidification		kg-SO ₂ eq	1.5E-01	1.0E-01	1.3E-03	1.1E-02	1.4E-02	1.8E-02
Resources consumption		kg-Sbeq	1.4E-02	1.4E-02	3.0E-05	5.4E-05	8.0E-04	9.1E-06

2. Life cycle inventory analysis (LCI)

Parameter	Unit
Non-renewable material resources	1.1E+01 kg
Non-renewable energy resources	3.9E+03 MJ
Renewable material resources	2.8E+01 kg
Renewable primary energy	1.6E+02 MJ
Consumption of freshwater	2.4E-01 m ³

3. Material composition

Material	Unit
Steel	3.9E+00 kg
SUS	3.5E-01 kg
Aluminium	1.3E-02 kg
Other metal	5.6E-06 kg
Plastic	1.3E+01 kg
Rubber	6.1E-02 kg
Glass	7.0E-01 kg
Paper and Wood	2.1E+00 kg
Circuit board	8.0E-01 kg
Othres	9.5E-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 components 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/>)