



SuMPO EPD

Type III Environmental Declaration (EPD)

Japan EPD Program by SuMPO

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

Registration number : JR-AI-25017E



4-in-1 Inkjet Printer MFC-J4550DW 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-J4550DW
 Multifunction device (IJ method)
 Product weight: 9.8kg Packaging etc.: 2.9kg
 Maximum paper size : A4
 Print/Copy/Scan/FAX/Automatic duplex printing/
 Automatic document feeding
 Wired/Wireless LAN

* This product is for Europe.

Registration#	JR-AI-25017E
PCR number	PA-590000-AI-08
PCR name	Imaging input and/or output equipment
Publication date	6/30/2025
Verification date	6/23/2025
Verification method	System certificaion
Verification#	JV-AI-25017E
Expiration date	6/22/2030
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

Company Information

Brother Industries, Ltd.
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internal external

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

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Results of life cycle impact assessment (LCIA)

		Raw material acquisition	Production	Distribution	Use & maintenance	End-of-Life
Core mandatory impact indicators						
Global Warming Potential total (GWP-total)	kg-CO ₂ eq	9.18E+01	9.26E+00	7.54E+00	4.76E+00	2.07E+01
Acidification	kg-SO ₂ eq	2.32E-01	6.38E-02	4.99E-03	2.16E-02	1.32E-02
ADP elements	kg-Sbeq	6.15E-03	1.18E-05	1.47E-08	9.50E-05	2.10E-06

Life cycle inventory analysis (LCI)

Indicators describing use of primary resources

		Raw material acquisition	Production	Distribution	Use & maintenance	End-of-Life
RPR _M	MJ	1.89E+01	3.00E-02	6.49E-05	5.57E-01	9.22E-04
NRPR _M	MJ	2.95E+02	2.67E-01	1.63E-04	1.22E+01	1.76E-02
RPR _E	MJ	1.68E+02	7.58E+01	1.44E-02	5.40E+01	4.60E+00
NRPR _E	MJ	1.41E+03	1.33E+02	8.46E+01	1.18E+02	2.97E+01

Additional explanation

Calculation method for usage stage (Scenario) : Multifunction device(IJ method), Expected use period:3 years, Assumed usage: 7,200 sheets, Printing paper is not included in the environmental impact, This product is for Europe.

Supplementary environmental information

This product and main components are produced in our ISO 14001 certified factories.

Assumptions of secondary data used

Inventory Database: IDEA v3.4, and registered data of Japan EPD Program by SuMPO, JLCA data v1.16 are used.

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/>)
- This is a selfdeclared translation of EPD that can be accessed at [<https://ecoleaf-label.jp/epd/2318>] and is published for convenience purposes. Only the original EPD is valid and