



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-24250E

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 Colour Laser Printer

MFC-EX670 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-EX670

- Multifunction device (EP method)
- Colour
- Printing Speed: 40ppm (A4)
- Maximum document size: A4
- Print/Copy/Scan/FAX/Automatic duplex printing/
Automatic document feeding
- Product weight: 37.4kg, Packaging etc.: 5.7kg
- Wired/Wireless LAN

* This product is for Europe.

Company Information

Brother Industries, Ltd.

[inml-ecoleaf-jimukyoku\(at\)brother.co.jp](mailto:inml-ecoleaf-jimukyoku(at)brother.co.jp)

<https://global.brother/en>

Registration#	JR-AI-24250E
PCR number	PA-590000-AI-08
PCR name	Imaging input and/or output equipment
Publication date	10/31/2024
Verification date	10/21/2024
Verification method	System certificaion
Verification#	JV-AI-24250E
Expiration date	10/20/2029
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

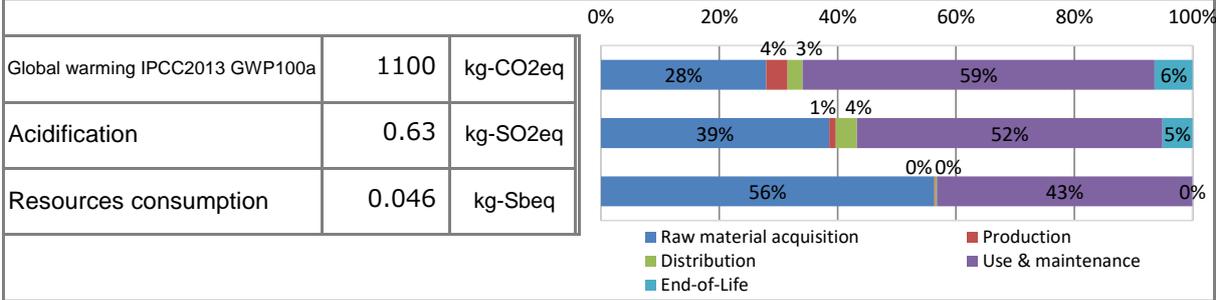
internal external

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

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1. Results of life cycle impact assessment (LCIA)



Parameter	stage	Unit	Total	Raw material acquisition	Production	Distribution	Use & maintenance	End-of-Life
Global warming IPCC2013 GWP100a		kg-CO ₂ eq	1.1E+03	3.1E+02	4.0E+01	2.8E+01	6.6E+02	7.1E+01
Acidification		kg-SO ₂ eq	6.3E-01	2.4E-01	7.1E-03	2.2E-02	3.2E-01	3.2E-02
Resources consumption		kg-Sbeq	4.6E-02	2.6E-02	8.2E-05	1.2E-04	2.0E-02	1.8E-05

2. Life cycle inventory analysis (LCI)

Parameter	Unit	Value
Non-renewable material resources	kg	4.4E+01
Non-renewable energy resources	MJ	1.6E+04
Renewable material resources	kg	1.5E+02
Renewable primary energy	MJ	2.9E+02
inml-ecoleaf-jimukyoku(at)br	m ³	1.1E+00

3. Material composition

Material	Unit	Value
Steel	kg	1.0E+01
SUS	kg	3.0E-01
Aluminium	kg	3.9E-01
Other metal	kg	4.2E-03
Plastic	kg	2.2E+01
Rubber	kg	3.0E-01
Glass	kg	1.1E+00
Paper and Wood	kg	4.6E+00
Circuit board	kg	1.6E+00
Othres	kg	2.6E+00

5. Additional explanation

Calculation method for usage stage (scenario) : Multifunction device (EP method), Expected use period: 5 years, Assumed usage: 240,000 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 components 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/>)