



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-24162E

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 Monochrome Laser Printer

**MFC-EX910** 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-EX910

- Multifunction device (EP method)
- Monochrome
- Printing Speed: 50ppm (A4)
- Maximum document size: A4
- Print/Copy/Scan/FAX/Automatic duplex printing/  
Automatic document feeding
- Product weight: 19.9kg, Packaging etc.: 4.8kg
- Wired/Wireless LAN

\* This product is for Europe.

### Company Information

Brother Industries, Ltd.

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

<https://global.brother/en>

Registration#	JR-AI-24162E
PCR number	PA-590000-AI-08
PCR name	Imaging input and/or output equipment
Publication date	8/2/2024
Verification date	7/24/2024
Verification method	System certificaion
Verification#	JV-AI-24162E
Expiration date	7/23/2029
<b>PCR review was conducted by:</b>	
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

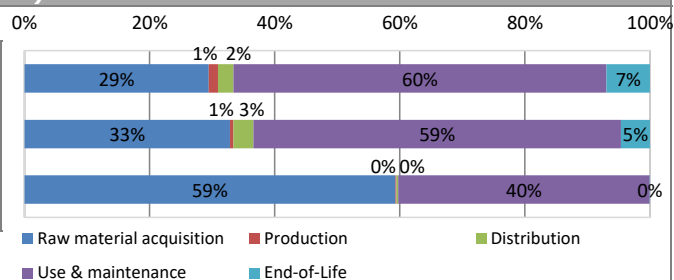
internal       external

\*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	590	kg-CO <sub>2</sub> eq
Acidification	0.40	kg-SO <sub>2</sub> eq
Resources consumption	0.021	kg-Sbeq



Parameter	stage	Unit	Total	Raw material acquisition	Production	Distribution	Use & maintenance	End-of-Life
Global warming IPCC2013 GWP100a		kg-CO <sub>2</sub> eq	5.9E+02	1.7E+02	8.7E+00	1.4E+01	3.5E+02	4.1E+01
Acidification		kg-SO <sub>2</sub> eq	4.0E-01	1.3E-01	2.1E-03	1.3E-02	2.3E-01	1.8E-02
Resources consumption		kg-Sbeq	2.1E-02	1.3E-02	3.1E-05	6.1E-05	8.6E-03	1.0E-05

**2. Life cycle inventory analysis (LCI)**

Parameter	Unit
Non-renewable material resources	2.1E+01 kg
Non-renewable energy resources	8.7E+03 MJ
Renewable material resources	9.2E+01 kg
Renewable primary energy	1.6E+02 MJ
Consumption of freshwater	5.8E-01 m <sup>3</sup>

**3. Material composition**

Material	Unit
Steel	4.7E+00 kg
SUS	7.4E-02 kg
Aluminium	1.2E-01 kg
Other metal	0.0E+00 kg
Plastic	1.3E+01 kg
Rubber	1.7E-01 kg
Glass	8.9E-01 kg
Paper and Wood	3.9E+00 kg
Circuit board	8.6E-01 kg
Othres	1.3E+00 kg

**5. Additional explanation**

Calculation method for usage stage (scenario) : Multifunction device (EP method), Expected use period: 5 years, Assumed usage: 374,400 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 v1.15 are used.

**8. Remarks**

- 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/>)