

Registration number : JR-AI-20116E-B



BROTHER INDUSTRIES, LTD.

4-in-1 Colour Laser Printer MFC-L8690CDW 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-L8690CDW
 Multifunction device (Colour EP method)
 Printing Speed:31ppm (A4)
 Maximum paper size : A4
 Print/Copy/Scan/FAX/Automatic duplex printing/
 Automatic document feeding
 Wired/Wireless LAN
 Product weight: 25.8kg, Packaging etc.: 7.1kg
 * This product is for Europe.

Company Information

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Registration#	JR-AI-20116E-B
PCR number	PA-590000-AI-08
PCR name	Imaging input and/or output equipment
Publication date	10/28/2025
Verification date	10/15/2025
Verification method	System certification
Verification#	JV-AI-20116E-B
Expiration date	10/14/2030
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

☐ 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
Global Warming Potential total (GWP-total)	kg-CO ₂ eq	2.16E+02	1.74E+01	1.94E+01	5.74E+02	5.54E+01
Acidification	kg-SO ₂ eq	6.41E-01	1.54E-01	1.28E-02	2.28E+00	3.72E-02
ADP elements	kg-Sbeq	1.13E-02	3.89E-05	3.76E-08	8.09E-02	7.15E-06

Life cycle inventory analysis (LCI)

Indicators describing use of primary resources

		Raw material acquisition	Production	Distribution	Use & maintenance	End-of-Life
RPR _E	MJ	5.43E+02	1.33E+02	3.66E-02	3.47E+03	1.58E+01
RPR _M	MJ	7.14E+00	1.52E-01	1.67E-04	4.66E+01	2.96E-03
NRPR _E	MJ	3.71E+03	3.60E+02	2.17E+02	1.09E+04	8.55E+01
NRPR _M	MJ	7.59E+02	7.97E-01	4.17E-04	1.62E+03	5.19E-02

RPRE = renewable primary resources used as an energy carrier (fuel)

RPRM = renewable primary resources with energy content used as material

NRPRE = non-renewable primary resources used as an energy carrier (fuel)

NRPRM = non-renewable primary resources with energy content used as material

Additional explanation

Calculation method for usage stage (Scenario) : Multifunction device(EP method), Expected use period: 5 years, Assumed usage: 139,500 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.

Supplementary environmental information

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

Material composition

Material		Unit
Steel	7.6E+00	kg
SUS	2.8E-01	kg
Aluminium	4.2E-01	kg
Other metal	4.5E-03	kg
Plastic	1.7E+01	kg
Rubber	1.6E-01	kg
Glass	1.0E+00	kg
Paper and Wood	4.0E+00	kg
Circuit board	1.0E+00	kg
Othres	1.8E+00	kg

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

15 October 2025: Re-verification

- 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/217> and is published for convenience purposes. Only the original EPD is valid and binding between parties.