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-25025E

BROTHER INDUSTRIES, LTD.

3-in-1 Monochrome Laser Printer

DCP-L1642W 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: DCP-L1642W

Multifunction device (EP method)

Monochrome

Printing Speed:20ppm (A4)

Maximum paper size ：A4

Print/Copy/Scan

Product weight: 7.2kg, Packaging etc.: 1.8kg

Wired/Wireless LAN

* This product is for Europe.

Company Information

Brother Industries, Ltd.

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https://global.brother/en

Registration#	JR-AI-25025E
PCR number	PA-590000-AI-08
PCR name	Imaging input and/or output equipment
Publication date	9/12/2025
Verification date	8/28/2025
Verification method	System certificaion
Verification#	JV-AI-25025E
Expiration date	8/27/2030

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.

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_2eq	6.94E+01	3.25E+00	5.36E+00	2.68E+02	1.52E+01
Acidification	kg-SO_2eq	2.02E-01	2.74E-02	3.53E-03	1.06E+00	1.06E-02
ADP elements	kg-Sbeq	5.16E-03	1.04E-05	1.04E-08	4.75E-03	2.06E-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	1.44E+02	3.24E+01	1.02E-02	1.58E+03	4.55E+00
RPR_M	MJ	1.19E+01	1.86E-01	4.61E-05	1.37E+02	8.67E-04
$NRPR_E$	MJ	1.11E+03	4.36E+01	6.02E+01	4.81E+03	2.64E+01
$NRPR_M$	MJ	2.03E+02	1.30E-01	1.16E-04	6.36E+02	1.50E-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) : Printer(EP method), Expected use period: 5 years, Assumed usage:60,000 sheets, Print measuring method (Pattern): ISO/IEC 19798, Printing paper is not included in the environmentalimpact, The applied Energy Star program version is 3.0, This product is for Europe.

Supplementary environmental information

This product and photoconductors are produced in ISO 14001 certified factories.

Material composition

Material		Unit
Steel	1.1E+00	kg
SUS	4.0E-02	kg
Aluminium	1.5E-01	kg
Other metal	5.1E-03	kg
Plastic	4.1E+00	kg
Rubber	3.7E-01	kg
Glass	6.3E-01	kg
Paper and Wood	1.7E+00	kg
Circuit board	3.4E-01	kg
Othres	5.9E-01	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

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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/2420
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