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BROTHER INDUSTRIES, LTD.

3-in-1 Monochrome Laser Printer

DCP-L1642WXL 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-L1642WXL
 Multifunction device (EP method)
 Monochrome
 Printing Speed:20ppm (A4)
 Maximum paper size : A4
 Print/Copy/Scan
 Product weight: 7.7kg, Packaging etc.: 2.0kg
 Wired/Wireless LAN
 * This product is for Europe.

Company Information

Brother Industries, Ltd.
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<https://global.brother/en>

| | |
|------------------------------|---|
| Registration# | JR-AI-25024E |
| 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-25024E |
| Expiration date | 8/27/2030 |
| PCR review was conducted by: | |
| Approval date | 9/1/2023 |
| PCR review | Masayuki Kanzaki |
| panel chair | 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 ₂ eq | 7.18E+01 | 3.74E+00 | 5.72E+00 | 2.51E+02 | 1.63E+01 |
| Acidification | kg-SO ₂ eq | 2.10E-01 | 2.81E-02 | 3.77E-03 | 1.00E+00 | 1.14E-02 |
| ADP elements | kg-Sbeq | 5.28E-03 | 1.27E-05 | 1.11E-08 | 4.42E-03 | 2.20E-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 | 1.51E+02 | 3.69E+01 | 1.09E-02 | 1.52E+03 | 4.87E+00 |
| RPR _M | MJ | 1.22E+01 | 1.93E-01 | 4.92E-05 | 1.27E+02 | 9.31E-04 |
| NRPR _E | MJ | 1.15E+03 | 5.71E+01 | 6.42E+01 | 4.58E+03 | 2.82E+01 |
| NRPR _M | MJ | 2.18E+02 | 4.13E-01 | 1.23E-04 | 5.90E+02 | 1.61E-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 environmental impact, 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 | 1.2E+00 | kg |
| SUS | 4.3E-02 | kg |
| Aluminium | 1.5E-01 | kg |
| Other metal | 5.1E-03 | kg |
| Plastic | 4.5E+00 | kg |
| Rubber | 3.7E-01 | kg |
| Glass | 6.3E-01 | kg |
| Paper and Wood | 1.9E+00 | kg |
| Circuit board | 3.4E-01 | kg |
| Othres | 6.0E-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/2419> and is published for convenience purposes. Only the original EPD is valid and binding between parties.