



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-23093E

Japan EPD Program by SuMPO

Sustainable Management Promotion Organization

14-8, Uchikanda 1-chome, Chiyoda-ku, Tokyo Japan

<https://ecoleaf-label.jp/>



Color LED Printer

HL-L8245CDW for North America

BROTHER INDUSTRIES, LTD.



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: HL-L8245CDW

- Printer (EP method)
- Color
- Printing Speed: 31ppm (Color/Monochrome, Letter)
- Maximum document size: A4, Letter
- Print/Automatic duplex printing
- Product weight: 16.7kg, Packaging etc.: 3.1kg
- Wired/Wireless LAN

* This product is for North America.

Company Information

Brother Industries, Ltd.

TEL: 81-52-824-2511 (Representative)

FAX: 81-52-821-5177

<https://www.brother-usa.com/>

| | |
|-------------------------------------|---|
| Registration# | JR-AI-23093E |
| PCR number | PA-590000-AI-08 |
| PCR name | Imaging input and/or output equipment |
| Publication date | 11/15/2023 |
| Verification date | 11/1/2023 |
| Verification method | System certificaion |
| Verification# | JV-AI-23093E |
| Expiration date | 10/31/2028 |
| 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

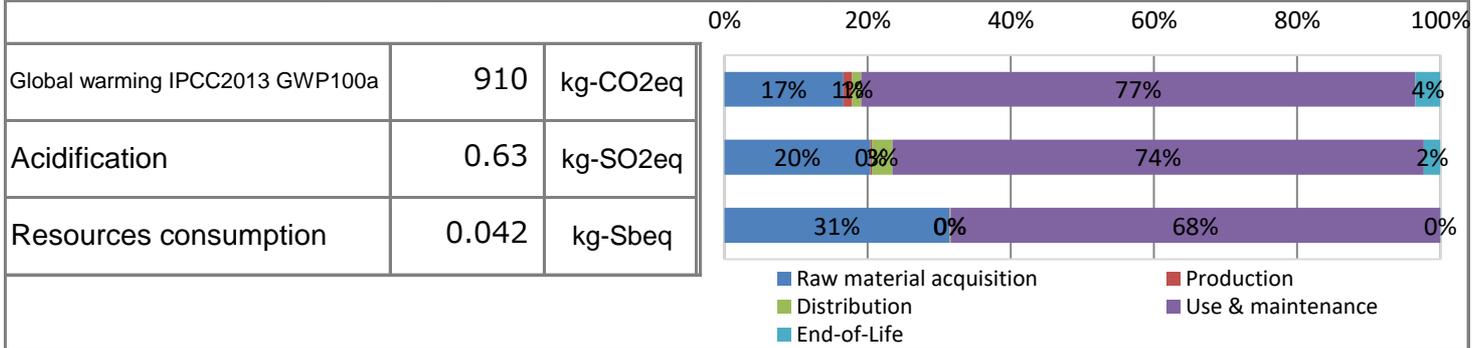
external

*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 | 9.1E+02 | 1.5E+02 | 1.1E+01 | 1.2E+01 | 7.1E+02 | 3.2E+01 |
| Acidification | | kg-SO ₂ eq | 6.3E-01 | 1.3E-01 | 1.3E-03 | 1.8E-02 | 4.7E-01 | 1.5E-02 |
| Resources consumption | | kg-Sbeq | 4.2E-02 | 1.3E-02 | 2.6E-05 | 4.9E-05 | 2.9E-02 | 8.2E-06 |

2. Life cycle inventory analysis (LCI)

| Parameter | Unit |
|----------------------------------|------------------------|
| Non-renewable material resources | 4.2E+01 kg |
| Non-renewable energy resources | 1.3E+04 MJ |
| Renewable material resources | 1.1E+02 kg |
| Renewable primary energy | 3.2E+02 MJ |
| Consumption of freshwater | 9.3E-01 m ³ |

3. Material composition

| Material | Unit |
|----------------|------------|
| Steel | 4.8E+00 kg |
| SUS | 1.9E-01 kg |
| Aluminium | 3.2E-01 kg |
| Other metal | 2.3E-03 kg |
| Plastic | 9.8E+00 kg |
| Rubber | 3.5E-01 kg |
| Glass | 3.2E-02 kg |
| Paper and Wood | 2.6E+00 kg |
| Circuit board | 8.1E-01 kg |
| Othres | 9.9E-01 kg |

5. Additional explanation

Calculation method for usage stage (scenario) : Printer (EP), 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 North America.

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 v1.10 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/>)