



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-23110E

Japan EPD Program by SuMPO

Sustainable Management Promotion Organization  
14-8, Uchikanda 1-chome, Chiyoda-ku, Tokyo Japan  
<https://ecoleaf-label.jp/>



# Monochrome Laser Printer HL-L6415DW for North America



### 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-L6415DW
- Printer (EP method)
  - Monochrome
  - Printing speed: 52ppm (Letter)
  - Maximum document size: A4, Letter
  - Print/Automatic duplex printing
  - Product weight: 13.1kg    Packaging etc.: 3.2kg
  - Wired/Wireless LAN
- \* This product is for North America.

### Company Information

Brother Industries, Ltd.  
 TEL: 81-52-824-2511 (Representative)  
 FAX: 81-52-824-5177  
<https://www.brother-usa.com/>

Registration#	JR-AI-23110E
PCR number	PA-590000-AI-07
PCR name	Imaging input and/or output equipment
Publication date	10/11/2023
Verification date	9/26/2023
Verification method	System certificaion
Verification#	JV-AI-23110E
Expiration date	9/25/2028
<b>PCR review was conducted by:</b>	
Approval date	04/24/2023
PCR review panel chair	Masayuki Kanzaki Sustainable Management Promotion Organization

### Third party verifier\*

Yasuo Koseki

Independent verification of data & declaration in accordance with ISO14025

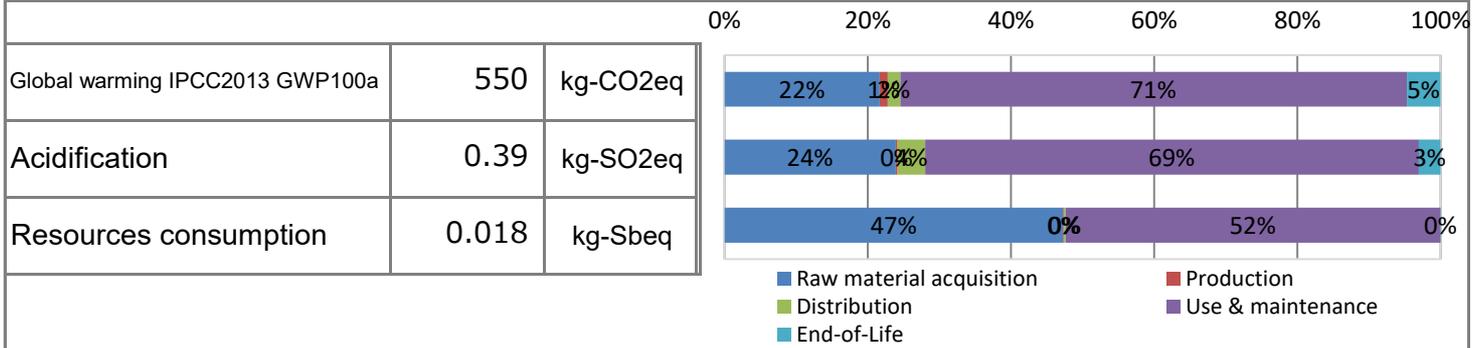
internal       external

\*Auditor's name is stated if system certification has been performed.

Registration number : JR-AI-23110E



**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 <sub>2</sub> eq	5.5E+02	1.2E+02	6.0E+00	9.7E+00	3.9E+02	2.6E+01
Acidification		kg-SO <sub>2</sub> eq	3.9E-01	9.3E-02	9.9E-04	1.5E-02	2.7E-01	1.2E-02
Resources consumption		kg-Sbeq	1.8E-02	8.7E-03	1.9E-05	4.1E-05	9.6E-03	6.7E-06

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

Parameter	Unit
Non-renewable material resources	1.6E+01 kg
Non-renewable energy resources	8.3E+03 MJ
Renewable material resources	8.0E+01 kg
Renewable primary energy	2.0E+02 MJ
Consumption of freshwater	5.2E-01 m <sup>3</sup>

**3. Material composition**

Material	Unit
Steel	3.4E+00 kg
SUS	7.5E-02 kg
Aluminium	1.1E-01 kg
Other metal	0.0E+00 kg
Plastic	8.1E+00 kg
Rubber	1.4E-01 kg
Glass	3.9E-02 kg
Paper and Wood	2.9E+00 kg
Circuit board	6.5E-01 kg
Othres	9.0E-01 kg

**5. Additional explanation**

Calculation method for usage stage (scenario) : Printer (EP method), Expected use period: 5 years, Assumed usage: 403,200 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 compornents 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**

-

- 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/>)