



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-23090E

Japan EPD Program by SuMPO

Sustainable Management Promotion Organization

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

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



BROTHER INDUSTRIES, LTD.

Color LED Printer

# HL-L3220CDW 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-L3220CDW

- Printer (EP method)
- Color
- Printing Speed: 19ppm (Color/Monochrome, Letter)
- Maximum document size: A4, Letter
- Print/Automatic duplex printing
- Product weight: 15.3kg, Packaging etc.: 2.6kg
- 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-23090E
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 certification
Verification#	JV-AI-23090E
Expiration date	10/31/2028
<b>PCR review was conducted by:</b>	
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

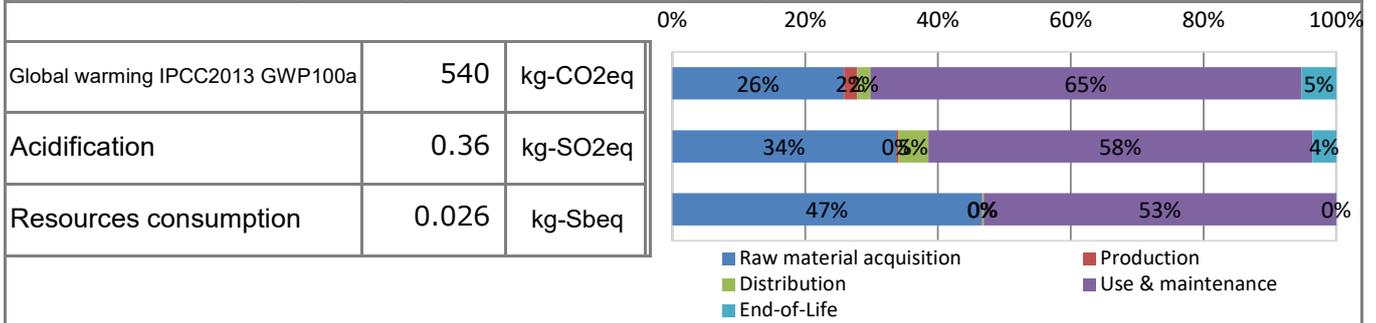
external

\*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	LCIA Results				
				Raw material acquisition	Production	Distribution	Use & maintenance	End-of-Life
Global warming IPCC2013 GWP100a		kg-CO <sub>2</sub> eq	5.4E+02	1.4E+02	1.1E+01	1.1E+01	3.5E+02	2.8E+01
Acidification		kg-SO <sub>2</sub> eq	3.6E-01	1.2E-01	1.1E-03	1.6E-02	2.1E-01	1.3E-02
Resources consumption		kg-Sbeq	2.6E-02	1.2E-02	2.5E-05	4.5E-05	1.4E-02	7.4E-06

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

Parameter	Unit	Value
Non-renewable material resources	kg	2.7E+01
Non-renewable energy resources	MJ	7.9E+03
Renewable material resources	kg	6.3E+01
Renewable primary energy	MJ	1.9E+02
Consumption of freshwater	m <sup>3</sup>	5.5E-01

**3. Material composition**

Material	Unit	Value
Steel	kg	4.7E+00
SUS	kg	1.8E-01
Aluminium	kg	3.2E-01
Other metal	kg	2.3E-03
Plastic	kg	8.6E+00
Rubber	kg	3.8E-01
Glass	kg	1.5E-02
Paper and Wood	kg	2.1E+00
Circuit board	kg	7.4E-01
Othres	kg	9.1E-01

**5. Additional explanation**

Calculation method for usage stage (scenario) : Printer (EP), Expected use period: 5 years, Assumed usage: 51,300 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/>)