



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-23103E

Japan EPD Program by SuMPO

Sustainable Management Promotion Organization

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

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

**brother**  
at your side

BROTHER INDUSTRIES, LTD.

Monochrome Laser Printer

**HL-L5210DW** 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-L5210DW

- Printer (EP method)
- Monochrome
- Printing speed: 48ppm (Letter)
- Maximum document size: A4, Letter
- Print/Automatic duplex printing
- Product weight: 10.9kg    Packaging etc.: 2.3kg
- 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/>

<b>Registration#</b>	JR-AI-23103E
<b>PCR number</b>	PA-590000-AI-07
<b>PCR name</b>	Imaging input and/or output equipment
<b>Publication date</b>	10/11/2023
<b>Verification date</b>	9/26/2023
<b>Verification method</b>	System certificaion
<b>Verification#</b>	JV-AI-23103E
<b>Expiration date</b>	9/25/2028
<b>PCR review was conducted by:</b>	
<b>Approval date</b>	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

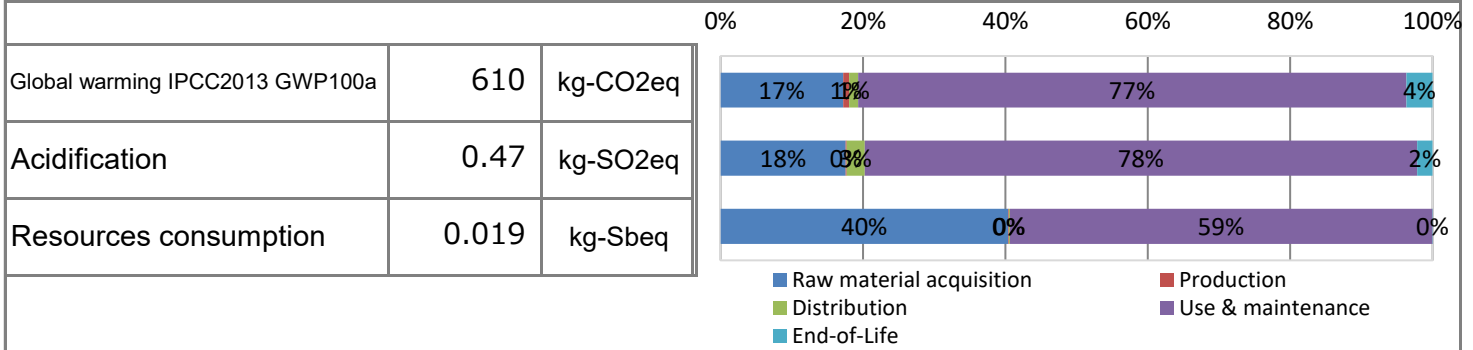
internal       external

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

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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 <sub>2</sub> eq	6.1E+02	1.0E+02	5.0E+00	7.8E+00	4.7E+02	2.2E+01
Acidification		kg-SO <sub>2</sub> eq	4.7E-01	8.3E-02	5.3E-04	1.2E-02	3.7E-01	1.0E-02
Resources consumption		kg-Sbeq	1.9E-02	7.8E-03	1.4E-05	3.3E-05	1.1E-02	5.5E-06

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

Parameter	Unit
Non-renewable material resources	1.8E+01 kg
Non-renewable energy resources	8.9E+03 MJ
Renewable material resources	8.6E+01 kg
Renewable primary energy	2.1E+02 MJ
Consumption of freshwater	5.9E-01 m <sup>3</sup>

**3. Material composition**

Material	Unit
Steel	2.5E+00 kg
SUS	5.8E-02 kg
Aluminium	1.1E-01 kg
Other metal	0.0E+00 kg
Plastic	6.9E+00 kg
Rubber	1.6E-01 kg
Glass	4.0E-02 kg
Paper and Wood	1.9E+00 kg
Circuit board	5.7E-01 kg
Othres	8.8E-01 kg

**5. Additional explanation**

Calculation method for usage stage (scenario) : Printer (EP method), Expected use period: 5 years, Assumed usage: 345,600 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**

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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/>)