



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-23102E

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-L5210DN 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-L5210DN
- 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 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-23102E
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-23102E
Expiration date	9/25/2028
PCR review was conducted by:	
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

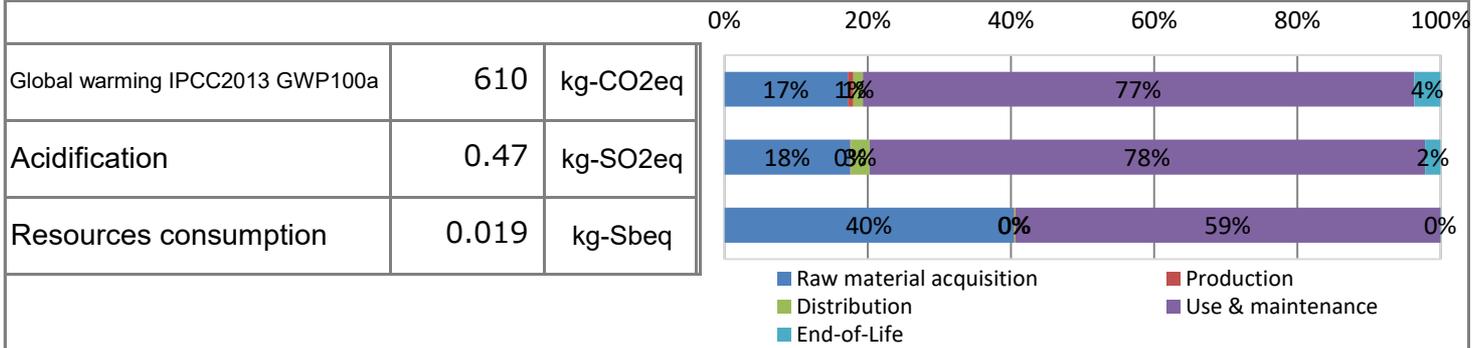
internal external

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

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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	6.1E+02	1.0E+02	5.0E+00	7.8E+00	4.7E+02	2.2E+01
Acidification		kg-SO ₂ 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 ³

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/>)