



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-24159E

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-L5210DN for Europe



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 (A4)
- Maximum document size: A4
- Print/Automatic duplex printing
- Product weight: 10.9kg Packaging etc.: 2.8kg
- Wired LAN

* This product is for Europe.

Company Information

Brother Industries, Ltd.

inml-ecoleaf-jimukyoku@brother.co.jp

<https://global.brother/en>

Registration#	JR-AI-24159E
PCR number	PA-590000-AI-08
PCR name	Imaging input and/or output equipment
Publication date	7/19/2024
Verification date	6/28/2024
Verification method	System certificaion
Verification#	JV-AI-24159E
Expiration date	6/27/2029
PCR review was conducted by:	
Approval date	9/1/2023
PCR review panel chair	Masayuki Kanzaki Sustainable Management Promotion Organization

Third party verifier*

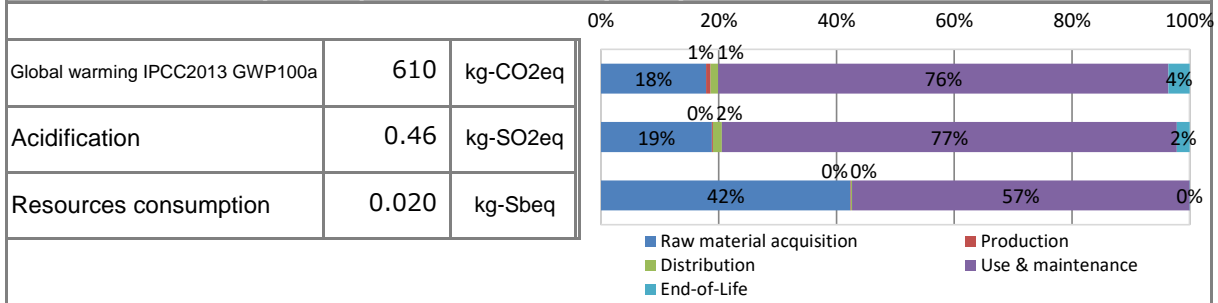
Yasuo Koseki

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	6.1E+02	1.1E+02	4.7E+00	8.0E+00	4.6E+02	2.2E+01
Acidification		kg-SO ₂ eq	4.6E-01	8.6E-02	8.9E-04	7.0E-03	3.6E-01	1.0E-02
Resources consumption		kg-Sbeq	2.0E-02	8.3E-03	1.5E-05	3.4E-05	1.1E-02	5.7E-06

2. Life cycle inventory analysis (LCI)

Parameter	Unit	Value
Non-renewable material resources	kg	1.8E+01
Non-renewable energy resources	MJ	8.9E+03
Renewable material resources	kg	8.6E+01
Renewable primary energy	MJ	1.7E+02
Consumption of freshwater	m ³	6.1E-01

3. Material composition

Material	Value	Unit
Steel	2.5E+00	kg
SUS	6.0E-02	kg
Aluminium	1.1E-01	kg
Other metal	0.0E+00	kg
Plastic	6.8E+00	kg
Rubber	1.7E-01	kg
Glass	3.6E-02	kg
Paper and Wood	2.4E+00	kg
Circuit board	6.2E-01	kg
Othres	9.6E-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 Europe.

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/>)