



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-23244E

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.

Colour LED Printer

HL-L8230CDW for EU



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-L8230CDW

- Printer(EP method)
- Colour
- Printing Speed: 30ppm (Colour/Monochrome, A4)
- Maximum paper size: A4
- Print/Automatic duplex printing
- Product weight: 16.7kg, Packaging etc.: 3.3kg
- Wireless LAN

* This product is for EU.

Company Information

Brother Industries, Ltd.

TEL: 81-52-824-2511 (Representative)

FAX: 81-52-821-5177

<https://www.brother.eu/en>

Registration#	JR-AI-23244E
PCR number	PA-590000-AI-08
PCR name	Imaging input and/or output equipment
Publication date	11/17/2023
Verification date	10/27/2023
Verification method	System certificaion
Verification#	JV-AI-23244E
Expiration date	10/26/2028

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

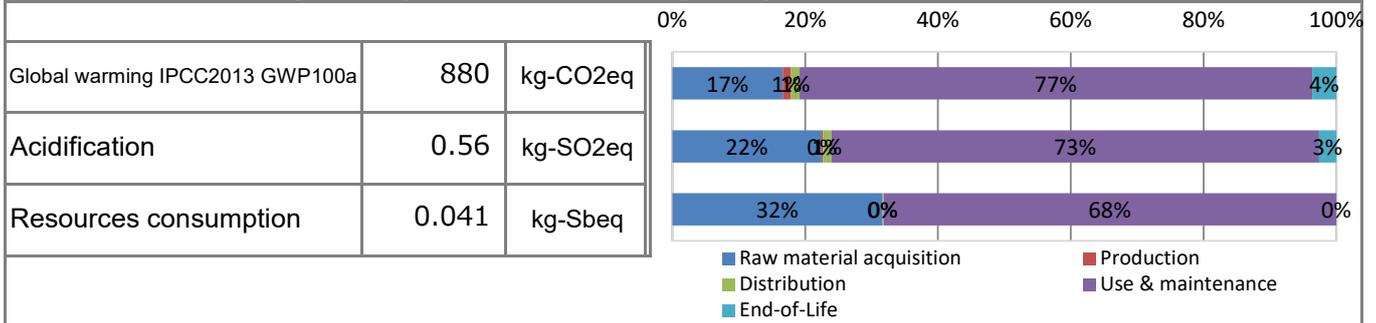
internal external

*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	LCIA Results				
				Raw material acquisition	Production	Distribution	Use & maintenance	End-of-Life
Global warming IPCC2013 GWP100a		kg-CO ₂ eq	8.8E+02	1.5E+02	1.1E+01	1.1E+01	6.8E+02	3.2E+01
Acidification		kg-SO ₂ eq	5.6E-01	1.3E-01	1.1E-03	7.2E-03	4.1E-01	1.5E-02
Resources consumption		kg-Sbeq	4.1E-02	1.3E-02	2.5E-05	4.9E-05	2.8E-02	8.2E-06

2. Life cycle inventory analysis (LCI)

Parameter	Unit	Value
Non-renewable material resources	kg	4.1E+01
Non-renewable energy resources	MJ	1.3E+04
Renewable material resources	kg	1.1E+02
Renewable primary energy	MJ	2.7E+02
Consumption of freshwater	m ³	9.1E-01

3. Material composition

Material	Unit	Value
Steel	kg	4.8E+00
SUS	kg	1.9E-01
Aluminium	kg	3.2E-01
Other metal	kg	2.3E-03
Plastic	kg	9.8E+00
Rubber	kg	3.4E-01
Glass	kg	2.8E-02
Paper and Wood	kg	2.8E+00
Circuit board	kg	7.4E-01
Othres	kg	9.5E-01

5. Additional explanation

Calculation method for usage stage (Scenario) : Printer (EP method), Expected use period: 5 years, Assumed usage: 135,000 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 EU.

6-1. Supplementary environmental information

This product and main components are produced in our 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/>)