



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-21054E-B

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.

Compact Color Inkjet All-in-One

MFC-J4345DW XL



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: MFC-J4345DW XL

- Business Facsimile (Color IJ method)
- Product weight: 8.2kg Packaging etc.: 1.9kg
- Maximum paper size: 215.9×297mm
- G3 compatible
- Automatic duplex printing
- 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/>

Registration#	JR-AI-21054E-B
PCR number	PA-590000-AI-04
PCR name	Imaging input and/or output equipment
Publication date	06/30/2021
Verification date	12/20/2022
Verification method	System certificaion
Verification#	JV-AI-21054
Expiration date	12/19/2027
PCR review was conducted by:	
Approval date	4/1/2022
PCR review panel chair	Masayuki Kanzaki Sustainable Management Promotion Organization

Third party verifier*

Wataru Kawamura

Independent verification of data & declaration in accordance with ISO14025

internal

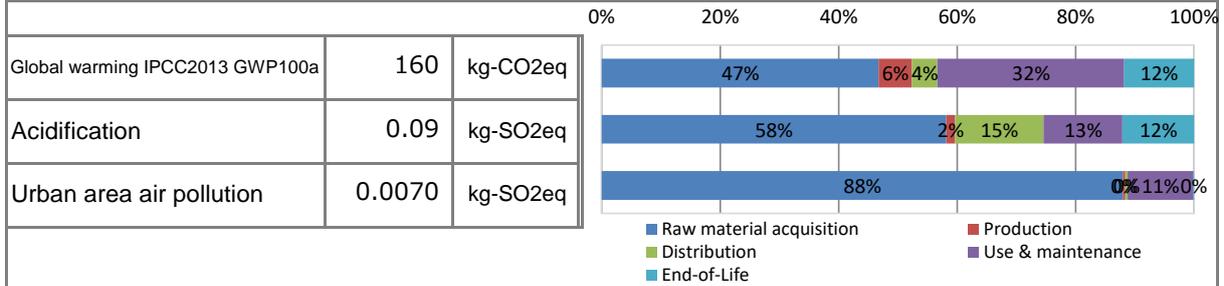
external

*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	1.6E+02	7.5E+01	9.0E+00	7.0E+00	5.1E+01	1.9E+01
Acidification		kg-SO ₂ eq	9.1E-02	5.3E-02	1.4E-03	1.4E-02	1.2E-02	1.1E-02
Resources consumption		kg-Sbeq	7.0E-03	6.2E-03	2.6E-05	3.0E-05	7.8E-04	1.2E-05

2. Life cycle inventory analysis (LCI)

項目	Value	單位
Non-renewable material resources	6.9E+00	kg
Non-renewable energy resources	5.7E+01	kg
Renewable material resources	1.2E+01	kg
Renewable primary energy	1.3E+02	MJ
Consumption of freshwater	1.3E-01	m ³

3. Material composition

Material	Value	Unit
Steel	1.7E+00	kg
SUS	3.6E-02	kg
Aluminium	7.2E-03	kg
Other metal	4.4E-03	kg
Plastic	4.9E+00	kg
Rubber	2.0E-01	kg
Glass	6.2E-01	kg
Paper and Wood	1.1E+00	kg
Circuit board	4.6E-01	kg
Othres	9.9E-01	kg

5. Additional explanation

Calculation method for usage stage (scenario) : Facsimile (business model), Expected use period: 5 years, Transmission / reception: 48,000 each, Use pattern when measuring power: ITUT No.1 chart, Printing paper is not included in the environmental impact, This product is for North America.



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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

Date of change: 1/13/2023 Revised Circuit board mass

- 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/>)

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