



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-21056E-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-J4535DW 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-J4535DW XL

- Business Facsimile (Color IJ method)
- Product weight: 9.6kg Packaging etc.: 2.1kg
- Maximum paper size: 215.9×297mm
- G3 compatible
- Automatic duplex printing
- Wireless/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/>

<b>Registration#</b>	JR-AI-21056E-B
<b>PCR number</b>	PA-590000-AI-04
<b>PCR name</b>	Imaging input and/or output equipment
<b>Publication date</b>	06/30/2021
<b>Verification date</b>	12/20/2022
<b>Verification method</b>	System certificaion
<b>Verification#</b>	JV-AI-21056
<b>Expiration date</b>	12/19/2027
<b>PCR review was conducted by:</b>	
<b>Approval date</b>	4/1/2022
<b>PCR review panel chair</b>	Masayuki Kanzaki Sustainable Management Promotion Organization

## Third party verifier\*

Wataru Kawamura

Independent verification of data & declaration in accordance with ISO14025

internal

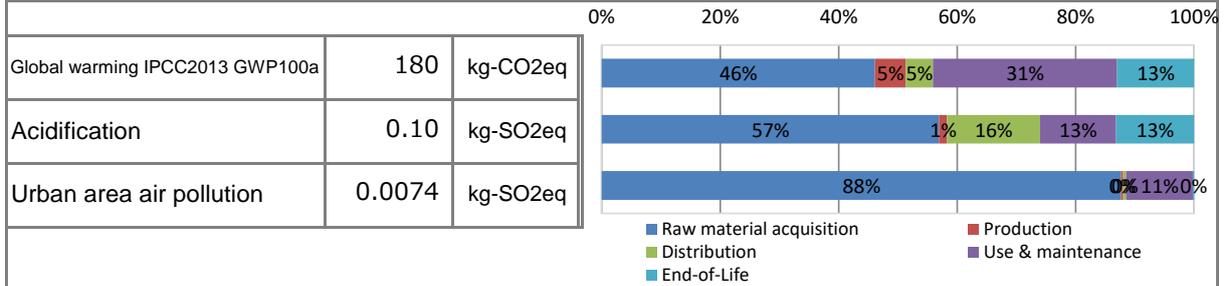
external

\*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 <sub>2</sub> eq	1.8E+02	8.3E+01	9.4E+00	8.2E+00	5.6E+01	2.3E+01
Acidification		kg-SO <sub>2</sub> eq	1.0E-01	5.8E-02	1.3E-03	1.6E-02	1.3E-02	1.3E-02
Resources consumption		kg-Sbeq	7.4E-03	6.5E-03	2.7E-05	3.4E-05	8.3E-04	1.4E-05

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

項目	Value	單位
Non-renewable material resources	6.9E+00	kg
Non-renewable energy resources	6.4E+01	kg
Renewable material resources	1.5E+01	kg
Renewable primary energy	1.4E+02	MJ
Consumption of freshwater	1.4E-01	m <sup>3</sup>

**3. Material composition**

Material	Value	Unit
Steel	1.7E+00	kg
SUS	3.8E-02	kg
Aluminium	7.2E-03	kg
Other metal	4.4E-03	kg
Plastic	6.4E+00	kg
Rubber	1.7E-01	kg
Glass	6.2E-01	kg
Paper and Wood	1.4E+00	kg
Circuit board	4.7E-01	kg
Othres	9.4E-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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