



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-23242E

Japan EPD Program by SuMPO

Sustainable Management Promotion Organization

14-8, Uchikanda 1-chome, Chiyoda-ku, Tokyo Japan

<https://ecoleaf-label.jp/>



BROTHER INDUSTRIES, LTD.

Color LED All-in-One Printer

# MFC-L3780CDW 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: MFC-L3780CDW

- Recording method: Color EP method
- Facsimile (business model)
- Maximum recording size: A4, Letter
- Maximum document size: A4, Letter
- Super G3
- Product weight: 21.8kg, Packaging etc.: 3.4kg
- Automatic duplex printing
- Wired/Wireless LAN

\* This product is for North America.

## Company Information

Brother Industries, Ltd.

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

FAX: 81-52-821-5177

<https://www.brother-usa.com/>

Registration#	JR-AI-23242E
PCR number	PA-590000-AI-07
PCR name	Imaging input and/or output equipment
Publication date	10/27/2023
Verification date	10/11/2023
Verification method	System certification
Verification#	JV-AI-23242E
Expiration date	10/10/2028
<b>PCR review was conducted by:</b>	
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

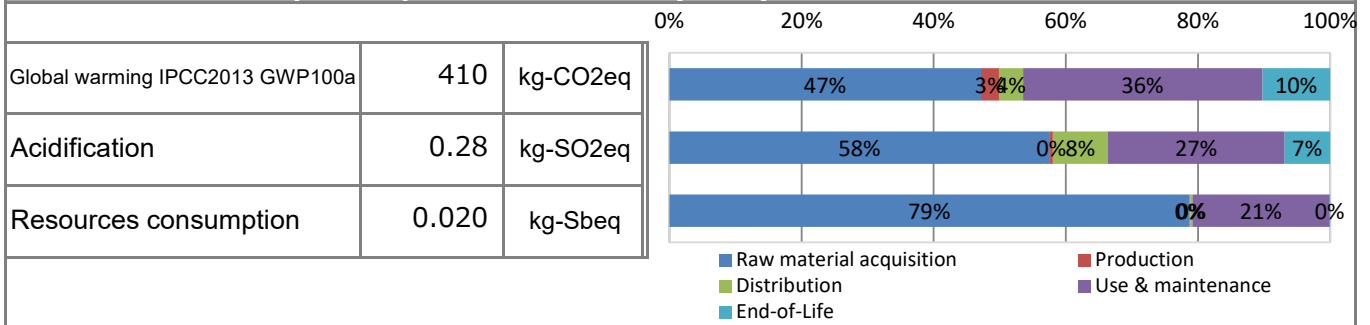
external

\* 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 <sub>2</sub> eq	4.1E+02	1.9E+02	1.1E+01	1.5E+01	1.5E+02	4.2E+01
Acidification		kg-SO <sub>2</sub> eq	2.8E-01	1.6E-01	1.2E-03	2.3E-02	7.4E-02	1.9E-02
Resources consumption		kg-Sbeq	2.0E-02	1.6E-02	2.6E-05	6.3E-05	4.2E-03	1.0E-05

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

Parameter	Unit
Non-renewable material resources	1.9E+01 kg
Non-renewable energy resources	6.1E+03 MJ
Renewable material resources	4.1E+01 kg
Renewable primary energy	1.5E+02 MJ
Consumption of freshwater	3.9E-01 m <sup>3</sup>

**3. Material composition**

Material	Unit
Steel	5.7E+00 kg
SUS	2.2E-01 kg
Aluminium	3.2E-01 kg
Other metal	2.3E-03 kg
Plastic	1.3E+01 kg
Rubber	3.7E-01 kg
Glass	7.1E-01 kg
Paper and Wood	2.6E+00 kg
Circuit board	1.1E+00 kg
Othres	1.2E+00 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: ITU-T No.1 chart, Printing paper is not included in the environmental impact, This product is for North America.

**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/>)