



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-22092E

Japan EPD Program by SuMPO

Sustainable Management Promotion Organization

2-1, Kaji-cho 2 chome, Chiyoda-ku, Tokyo Japan

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

**brother**  
at your side

BROTHER INDUSTRIES, LTD.

monochrome laser all-in-one printer

**Business Laser All-in-One Printer with Duplex Print, Scan  
and Copy, Wireless Networking**

**MFC-L5705DW** 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-L5705DW

- Business Facsimile (monochrome EP method)
- Product weight: 16.4 kg Packaging etc.: 3.1kg
- Maximum paper size : A4 、 Letter
- Super G3
- 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-22092E
<b>PCR number</b>	PA-590000-AI-04
<b>PCR name</b>	Imaging input and/or output equipment
<b>Publication date</b>	9/14/2022
<b>Verification date</b>	9/1/2022
<b>Verification method</b>	System certificaion
<b>Verification#</b>	JV-AI-22092E
<b>Expiration date</b>	8/31/2027
<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

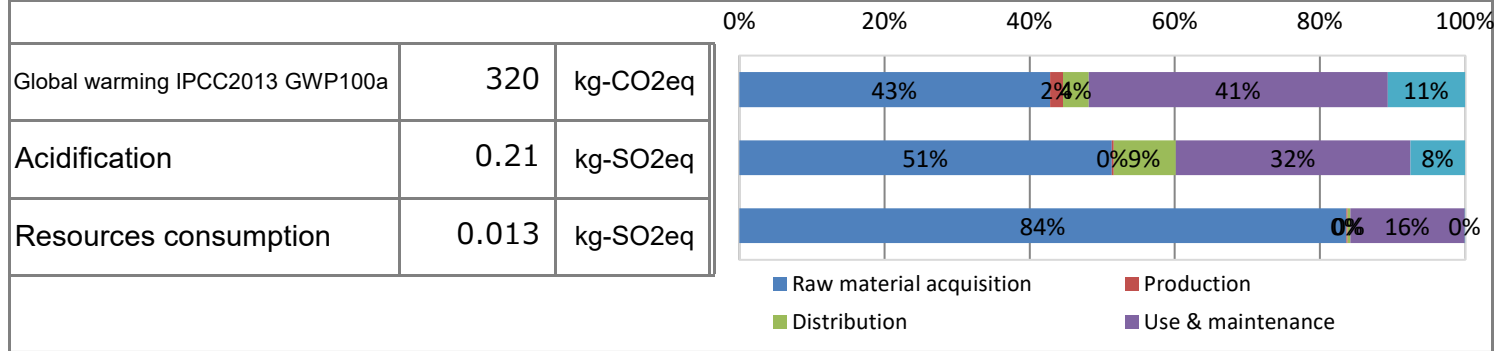
external

\*Auditor's name is stated if system certification has been performed.

Registration number : JR-AI-22092E



**1. Results of life cycle impact assessment (LCIA)**



Parameter	stage	Unit	Total	Life Cycle Stage				
				Raw material acquisition	Production	Distribution	Use & maintenance	End-of-Life
Global warming IPCC2013 GWP100a		kg-CO <sub>2</sub> eq	3.2E+02	1.4E+02	5.8E+00	1.2E+01	1.3E+02	3.5E+01
Acidification		kg-SO <sub>2</sub> eq	2.1E-01	1.1E-01	5.5E-04	1.8E-02	6.7E-02	1.6E-02
Resources consumption		kg-SO <sub>2</sub> eq	1.3E-02	1.1E-02	1.7E-05	4.8E-05	2.1E-03	8.1E-06

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

項目	Value	単位
Non-renewable material resources	1.2E+01	kg
Non-renewable energy resources	1.1E+02	kg
Renewable material resources	4.5E+01	kg
Renewable primary energy	1.2E+02	MJ
Consumption of freshwater	3.3E-01	m <sup>3</sup>

**3. Material composition**

Material	Value	Unit
Steel	3.4E+00	kg
SUS	7.4E-02	kg
Aluminium	1.0E-01	kg
Other metal	0.0E+00	kg
Plastic	1.1E+01	kg
Rubber	1.7E-01	kg
Glass	7.8E-01	kg
Paper and Wood	2.4E+00	kg
Circuit board	6.3E-01	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: ITUT No.1 chart, Printing paper is not included in the environmental impact, Product destination:North America



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-22092E

Japan EPD Program by SuMPO

Sustainable Management Promotion Organization

2-1, Kaji-cho 2 chome, Chiyoda-ku, Tokyo Japan

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

#### 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

- 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/>)

Registration number : JR-AI-22092E