



✓ Third party verified

Environmental Product Declaration

In conformance with

ISO14025

ISO14040

ISO14044



BROTHER INDUSTRIES, LTD

MFC-J4355DW for North America



Registration number

SuMPO-EPD-2603-119-1

Verification date

2026/3/17

Publication date

2026/3/30

Expiration date

2031/3/16

EPD type

Single Product EPD

* First publication date

Additional standards in conformance

ISO14067:2018

EPD can be updated or withdrawn during the validity period. To confirm the validity of this EPD, check the following website:
<https://ecoleaf-label.jp/epd/search>

● General Information

> Programme

Programme name	SuMPO EPD Japan
Programme operator	Sustainable Management Promotion Organization (SuMPO)
Address	KANDA SQUARE GATE 4F, 14-8, Uchikanda 1-chome, Chiyoda-ku, Tokyo, 101-0047, Japan
Website	https://ecoleaf-label.jp

> GPI and PCR

GPI	SuMPO EPD Japan General Program Instructions v.2.1.1
PCR name	Imaging input and/or output equipment products v.9.0.0
PCR registration number	PA-SuMPO-PCR-02001-9-0-0
PCR publication date	10/17/2025
PCR review panel chair	Ken Yamagishi (LCA Expert Center Co., Ltd.)
PCR valid until	10/16/2030
PCR issuer	Sustainable Management Promotion Organization (SuMPO)

> Verification

Verification Type	Third-party verification in conformance with ISO14025 and ISO21930:2017		
	<input type="checkbox"/> Internal		<input checked="" type="checkbox"/> External
	<input type="checkbox"/> Third-party verification by individual verifier	<input type="checkbox"/> Third-party verification by verification body	<input checked="" type="checkbox"/> Third-party verification by system certification
Verification body	Japan Quality Assurance Organization (Shino Nishikimi)		

> Standards

Standards in conformance with;	<input checked="" type="checkbox"/> ISO14040:2006	<input checked="" type="checkbox"/> ISO14044:2006	<input checked="" type="checkbox"/> ISO14067:2018
	<input checked="" type="checkbox"/> ISO14025:2006	<input type="checkbox"/> ISO21930:2007	<input type="checkbox"/> ISO21930:2017
	<input type="checkbox"/> EN15804+A2	<input type="checkbox"/> EN50693:2019	<input type="checkbox"/> ISO/IEC63366:2025

EPD owner is responsible for the information contained in the EPD and for environmental claims related to the information. For any inquiries or requests regarding the content of the EPD, please contact the EPD owner.

EPDs are comparable only if they comply with this document, use the same sub-PCR where applicable, include all relevant information and are based on equivalent scenarios. Comparability of EPDs is limited to those applying a functional unit.

The LCIA results are relative expressions and do not predict impacts on category endpoints, the exceedance of thresholds, safety margins or risks.

When using weighted averages for calculation, the life cycle impact assessment results, life cycle inventory analysis-related information, waste-related information, and environmental information on output flows do not correspond to information about a specific product.

● EPD Owner's Information

Name of company and dept.	Brother Industries, Ltd. Environment & Climate Change Strategy Dept.
Address	15-1 Naeshiro-cho, Mizuho-ku, Nagoya, 467-8561, Japan
Contact	inml-ecoleaf-jimukyoku(at)brother.co.jp
LCA practitioner	Brother Industries, Ltd. Toshiaki Iwasaki
Company description	The Brother Group's mission is to place our customers first everywhere, every time, and provide them with superior value by quickly creating and delivering high-quality products and services. We offer products and services with our distinctive expertise in a wide range of fields, such as printers and All-in-Ones, labeling systems and label printers, machine tools, industrial sewing machines, garment printers, coding and marking equipment, digital printing equipment, gearmotors and gears, home sewing machines, and online karaoke systems for business use.

Environmental Product Declaration for **MFC-J4355DW for North America**

Product Information

Product name	MFC-J4355DW for North America		
Product /model number	MFC-J4355DW		
Product specification	Mass	8.5kg	Conversion factor 0.958
	Function	Print/Copy/Scan/FAX/Automatic duplex printing/Automatic document feeding/Maximum Paper Size A4, Letter	
	Applications	Used for printing documents and photos, duplicating documents, digitizing images and documents, sending faxes, and more in homes and offices.	
	TS*	Method (IJ)	
Service life	Service life	3 years	
	In-use conditions	Printing 10 pages per day, 8 hours/day, 20 days/month, 12 months/year operation, lifetime print count: 7,200 pages.	
	reference	Scenarios for printers and multifunction device (inkjet method) of imaging input and/or output equipment products v.9.0.0 scenario	
Manufacturing site(s)	Philippines Factory (Tanauan City, Batangas, Philippines)		
Product description	Inkjet multifunction device		
Website	https://global.brother/en		

* TS: technical specifications,

Product Content

Product components	Proportion (%)	Mass (unit)
Steel	15.7	1.33 kg
SUS	0.7	0.06 kg
Aluminium	1.4	0.12 kg
Other metals	0.1	0.00 kg
Plastic	55.7	4.72 kg
Rubber	0.9	0.08 kg
Glass	7.4	0.63 kg
Paper and Wood	1.1	0.09 kg
Circuit board	6.7	0.57 kg
Others	10.3	0.87 kg
Packaging materials	Proportion (%)	Mass (unit)
Steel	0.0	0.00 kg
SUS	0.0	0.00 kg
Aluminium	0.0	0.00 kg
Other metals	0.0	0.00 kg
Plastic	3.8	0.06 kg
Rubber	0.0	0.00 kg
Glass	0.0	0.00 kg
Paper and Wood	96.2	1.51 kg
Circuit board	0.0	0.00 kg
Others	0.0	0.00 kg

Biogenic Carbon Content

Item	Content (kg-C)	Content (kg-CO ₂ eq)
Biogenic carbon content per product	0.03	0.10
Biogenic carbon content in packaging	0.36	1.33

● LCA-related Information

> EPD Type Information

EPD type	Product type	<input checked="" type="checkbox"/> Single product EPD	<input type="checkbox"/> Multiple products EPD	<input type="checkbox"/> Industry-wide EPD
	Site type	<input checked="" type="checkbox"/> Single site		<input type="checkbox"/> Multiple sites
	Value	<input checked="" type="checkbox"/> Specific	<input type="checkbox"/> Average	<input type="checkbox"/> Representative <input type="checkbox"/> Worst case
Geographical coverage		North America		
Description of representativeness for multiple-products/sites EPD		-		
Description of variation for multiple-products/sites EPD		-		
Description of products covered in the multiple products EPD		-		

> LCA Information

Declared unit	Per unit of product		
Mass per declared unit (Conversion factor to mass)	-		
Reference flow (number of products required to fulfil the function)	-		
System boundary	<input type="checkbox"/> Cradle-to Gate	<input type="checkbox"/> Cradle-to-Gate with options	<input checked="" type="checkbox"/> Cradle-to-Grave
LCA software	MiLCA Cloud Edition, version: 1.2.1.14		
LCI database	IDEA3.5.1		
Characterization model	Climate change: IPCC Sixth Assessment Report (IPCC, 2021); Other impact areas: LIME2		
Use of other background data	-		
Secondary data quality	The calculation was performed using data that met the secondary data quality standards specified in the GPI.		
Primary data collection sites	The ink and printhead production plant and the product assembly plant		
Primary data collection period	From April 2023		
Biogenic carbon	<input type="checkbox"/> 0/0 approach	<input checked="" type="checkbox"/> -1/+1 approach	
Information about electricity	Use	<input type="checkbox"/> Average consumption mix	<input type="checkbox"/> Others
	Type	-	
	Purchase date	-	
	Issuing body	-	

> Life Cycle Stages

Raw materials acquisition stage	Production stage	Distribution stage	Use stage	End of life stage
■	■	■	■	■

■ : declared stage - : stage not declared

> Allocation

- The discrepancy between the actual measured mass of the product and the mass registered in the environmental system must be within 5%, and should be allocated within 1%.
- Factory load according to production volume

> Cut-off rules

- Environmental load associated with the transportation processes of parts, materials, packaging, and accessories
 - Environmental load associated with product storage
 - Environmental load associated with proper disposal of "waste" in the raw material procurement and production stages
- (Cut-off criterion: 5%; Based on the trial calculation results at the time of the 9th edition review of image input/output devices)

> System Boundary

The settings were made based on the PCR. No items defined as out-of-boundary processes in the GPI or PCR were included in the calculation. The temporal system boundary is 100 years.

> Scenario

Distribution Stage

This product is intended for North America.

The transportation distance from the warehouse to the customer is 1,000 km.

Use Stage

Printing paper is not included in the environmental impact.

Power consumption is calculated according to the usage conditions specified in the product information.

Applied ENERGY STAR program: Ver. 3.2

The transportation distance for consumables from the warehouse to the customer is 1,000 km.

The transportation distance for the disposal of consumables is 100 km.

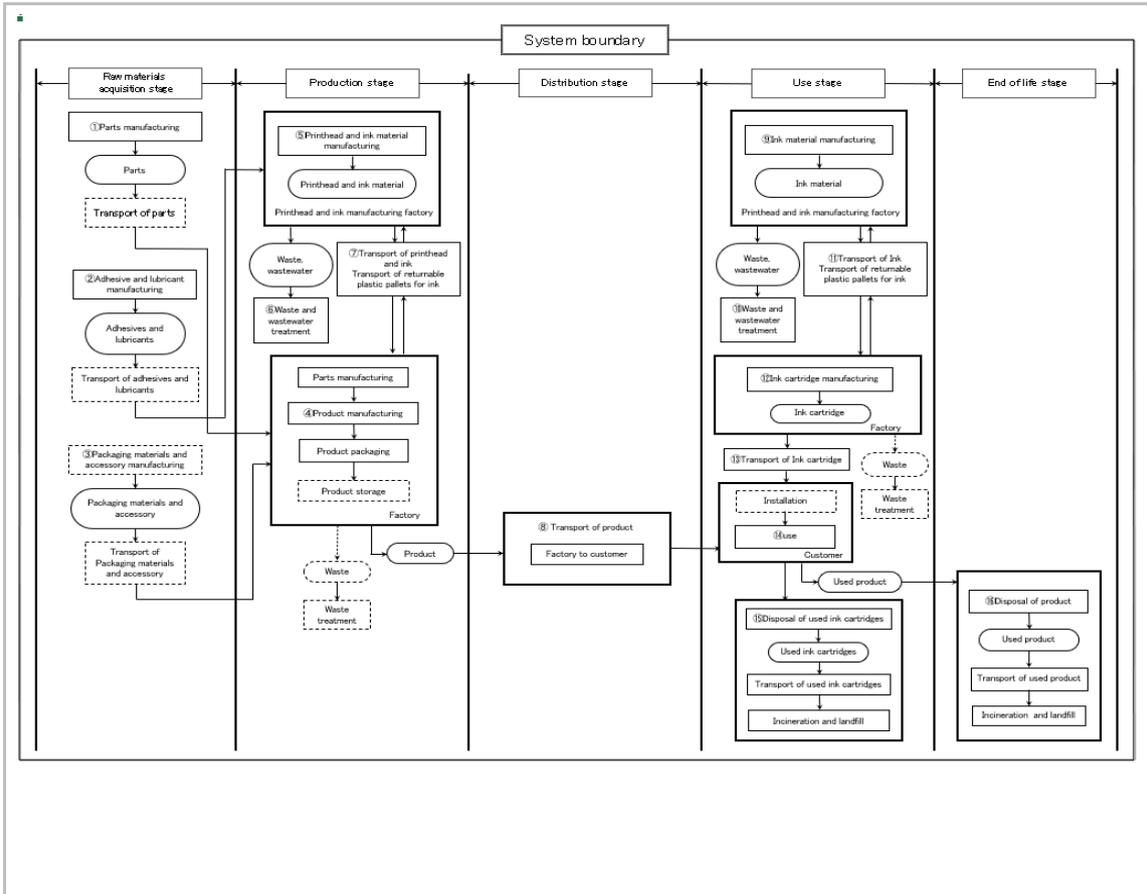
End-of-Life Stage

The transportation distance for the disposal of the main unit is 100 km.

> Electricity Modelling

For all targeted life cycle stages, appropriate regional unit values were allocated for the calculations.

> Life Cycle Sytem Diagram



Environmental Product Declaration for **MFC-J4355DW for North America**

● LCA Result

> LCIA Indicators

		Raw materials acquisition stage	Production stage	Distribution stage	Use stage	End of life stage
GWP - total	kg-CO ₂ eq	4.98E+01	8.26E+00	9.08E+00	7.69E+00	1.82E+01
GWP - fossil	kg-CO ₂ eq	5.06E+01	8.26E+00	8.97E+00	7.94E+00	1.61E+01
GWP - biogenic	kg-CO ₂ eq	-1.42E+00	-1.42E-02	9.12E-04	-2.80E-01	2.18E+00
GWP - land use and land use change	kg-CO ₂ eq	6.26E-01	4.86E-03	1.10E-01	3.02E-02	2.89E-03
ODP: Ozone depletion potential	kg-CFC-11eq	3.06E-06	1.46E-08	1.66E-09	2.19E-07	4.17E-09
EP: Eutrophication potential	kg-PO ₄ ³⁻ -eq	3.22E-03	4.78E-05	1.74E-07	9.26E-04	4.74E-06
AP: Acidification potential	kg-SO ₂ eq	1.35E-01	2.08E-02	9.15E-03	1.42E-02	8.52E-03
POCP: Photochemical oxidant creation potential	kg-C ₂ H ₄ eq	1.40E-03	7.23E-05	1.55E-04	1.61E-04	2.34E-05

Optional indicators

GWP - aircraft	kg-CO ₂ eq	0.00E+00	5.21E-02	0.00E+00	0.00E+00	0.00E+00
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> LCI - Primary Resource Use

		Raw materials acquisition stage	Production stage	Distribution stage	Use stage	End of life stage
RPR _E *	MJ	2.02E+02	6.79E+01	9.49E+00	3.49E+01	3.93E+00
RPR _M *	MJ	1.03E+01	6.79E+01	2.70E-04	2.44E+00	7.10E-04
NRPR _E *	MJ	9.82E+02	1.25E+02	1.21E+02	1.93E+02	2.30E+01
NRPR _M *	MJ	2.88E+02	3.76E-01	1.24E-02	2.35E+01	1.54E-02

*RPRE: Renewable primary resources used as an energy carrier, RPRM: Renewable primary resources with energy content used as material, NRPRE: Non-renewable primary resources used as an energy carrier, NRPRM: Non-renewable primary resources with energy content used as material.

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> LCI - ADP-fossil and Consumption of freshwater

		Raw materials acquisition stage	Production stage	Distribution stage	Use stage	End of life stage
Consumption of freshwater resources	m ³	1.79E+00	1.77E-02	4.00E-03	3.39E-01	8.95E-03

> Waste Indicators

		Raw materials acquisition stage	Production stage	Distribution stage	Use stage	End of life stage
Hazardous waste disposed	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.02E-01
Non-hazardous waste disposed	kg	1.45E+00	3.19E-02	7.24E-03	1.90E-01	5.16E-01
High-level radioactive waste	m ³	7.74E-10	1.01E-10	3.69E-11	2.08E-10	1.53E-11
Intmd. and low-level radioactive waste	m ³	7.90E-07	4.31E-08	3.76E-08	2.12E-07	1.56E-08

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> Description of LCA Results

Since general values (unit values) are used, the specific characteristics of the materials used in this product may not be reflected.

Therefore, please use these results as approximate values.

● Additional Environmental Information

> Additional Environmental Information not related to LCA

The assembly and production of this product, as well as the manufacturing of key components such as ink and print heads, are carried out at the factories certified under ISO 14001.

This product complies with the EU RoHS Directive.

The mass of hazardous waste is defined as the mass of component parts, such as substrates containing lead (Pb).

> Information on Hazardous Substances

Hazardous materials name	CAS No.	Standards or regulations
Pb	7439-92-1	PRTR Law (Pollutant Release and Transfer Register Law)

● Definitions of Terms

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● References

- ISO14025:2006 Environmental labels and declarations — Type III environmental declarations — Principles and procedures
- ISO14040:2006 Environmental management - Life Cycle Assessment - Principles and framework
- ISO14044:2006 Environmental management - Life Cycle Assessment - Requirements and guidelines
- ISO14067:2018 Greenhouse gases — Carbon footprint of products — Requirements and guidelines for quantification

● Version History

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