



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-21025E

Ecoleaf Environmental Labeling Program

Sustainable Management Promotion Organization

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

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



High-speed Linehead Inkjet Multifunction Printer WorkForce Enterprise WF-M21000

Seiko Epson Corporation

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: WorkForce Enterprise WF-C21000

Main Specifications

- Multifunction device (High Performance Inkjet)
- Black & White
- Print speed: 100ppm (single-sided A4 sheets)
- Maximum paper size (standard cassette): A3+
- Automatic duplex printing

Company Information

Seiko Epson Corporation
<http://www.epson.com/>
<http://www.epson.jp/contact/> (Japanese)
3-3-5 Owa, Suwa-shi, Nagano-ken, Japan
TEL 81-266-52-5353 (Japan)

Registration#	JR-AI-21025E
PCR number	PA-590000-AI-03
PCR name	Imaging input and/or output equipment
Publication date	2/1/2021
Verification date	1/28/2021
Verification method	Product-by-product
Verification#	JV-AI-21025
Expiration date	1/27/2026

PCR review was conducted by:

Approval date	11/8/2019
PCR review panel chair	Masayuki Kanzaki (Sustainable Management Promotion Organization)

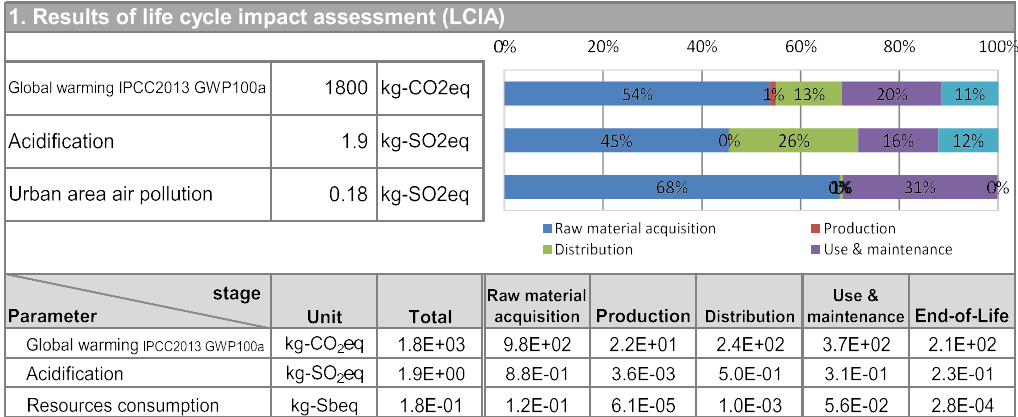
Third party verifier Yuki Sakamoto

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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2. Life cycle inventory analysis (LCI)

Parameter	Unit
Non-renewable material resources	1.5E+02 kg
Renewable material resources	3.0E+02 kg

3. Material composition

Material	Unit
Steel	1.1E+02 kg
SUS	3.8E+00 kg
Aluminum	3.3E+00 kg
Other metal	2.4E+00 kg
Plastic	5.5E+01 kg
Rubber	8.5E-01 kg
Glass	1.7E+00 kg
Paper and wood	2.4E+01 kg
Circuit Board	3.1E+00 kg
Others	9.6E+00 kg

5. Additional explanation

- Product destination: North America
- Calculation method of use stage (scenario)
 - Expected usage period: five years
 - Estimated number of use: 1,497,600 sheets*
 - Print measuring method (pattern): ISO/IEC 19752
 - Inventory of the print paper is not included
- Products selected in the scenario used for inventory calculation
 - Multifunction device (High Performance IJ)

* In accordance with the ENERGY STAR® Ver.3.0.
 1,497,600 sheets = (156 pages x 32 jobs/day x 5 days) / 4 x 4 weeks x 12 months x 5 years

6-1. Supplementary environmental information

- This product and main components are produced in our ISO 14001 certified factories.
- ENERGY STAR® Ver.3.0 qualified.
- EU RoHS compliant.

**7. Assumptions of secondary data used**

Inventory Database: IDEA Ver.2.1.3 and Ecoleaf Environmental Labeling Program Registry data v1.08

Followings are the list of the basic units used in this LCA. The sources of these basic units are disclosed in the EcoLeaf Environmental Labeling Program (URL:https://ecoleaf-label.jp/entry/application_form.html#FB-01).**1. Product information Section**

No	Basic Unit Name	Field	
2	Electroplated steel Plate	Material Production(Metal)	
5	Electromagnetic steel plate		
6	Stainless Steel Plate		
7	Copper plate		
8	Aluminum plate		
16	Glass	Material Production(Inorganic Chemistry)	
27	Low density polyethylene		
28	Polypropylene	Material Production(Synthetic Resin)	
29	Polystyrene		
30	PVC		
32	Polycarbonate		
34	POM (Polyacetal)		
36	ABS		
38	MMA Resin		
39	PA66 (Polyamide 66)		
40	PET		
43	Expandable softpolyurethane (forautomobile)		
45	Unsaturated Polyester (UP)		
48	Nitrile-butadiene rubber(NBR)		Material Production(Rubber)
49	Styrene-butadiene rubber(SBR)		
67	Corrugated cardboard		
68	Cardboard	Material Production(Wood and Paper)	
69	Paper (Western style)		
71	Wood chip (imported)		
75	Multilayer substrate	Parts Production(General)	
76	Assembled circuit board		
85	Press molding: Iron	Processing	
86	Press molding: Nonferrousmetal		
87	Injection molding		
89	Glass molding		
90	Parts assembly	Assembly	

2. Production site information Section ~ 5. Disposition/Recycle stage information Section

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2	Electroplated steel Plate	Material Production(Metal)	
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86	Press molding: Nonferrousmetal		
87	Injection molding		
89	Glass molding	Assembly	
90	Parts assembly		
92	Diesel truck:4 ton	Transportation	
93	Diesel truck:10 ton		
95	Diesel truck:20 ton		
96	Freight by rail		
97	Freight by ship		
99	Electricity	Electric Power and Fuel	
100	Heavy oil as fuel		
101	Diesel oil as fuel		
102	Kerosene as fuel		
110	Heavy oil		
111	Diesel oil		
112	Kerosene		
117	Urban gas (13A)		
118	LPG		
119	LNG		
123	Industrial water		Utility(Water)
126	Clean water (kg)		
129	Shredding	Disposal and Recycling(Crushing and Sorting)	
133	Incineration to landfill(as ash)		
134	Incineration: Industrial waste		
137	Landfill: Industrial waste	Disposal and Recycling(Incineration and Landfill)	

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/entry/application_form.html#FB-01)