EPSON

High-speed Linehead Inkjet Multifunction Printer

WorkForce Enterprise AM-C4000

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 AM-C4000

Main Specifications

■Multifunction device (High Performance Inkjet)

■Color

■Print speed: 40ppm (single-sided A4 sheets)

■Maximum paper size (standard cassette): A3

■Automatic duplex printing

※This product is destined for North America

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-23251E
PCR number	PA-590000-AI-07
PCR name	Imaging input and/or output equipment
Publication date	9/20/2023
Verification date	9/13/2023
Verification method	Product-by-product
Verification#	JV-AI-23283
Expiration date	9/12/2028

PCR review was conducted by:

Approval date	4/24/2023
PCR review panel chair	Masayuki Kanzaki (Sustainable Management Promotion Organization)

Third party verifier*

Tetsuya Okuyama

Independent verification of data & declaration in accordance with ISO14025

□internal　■external

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

EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-23251E

Japan EPD Program by SuMPO

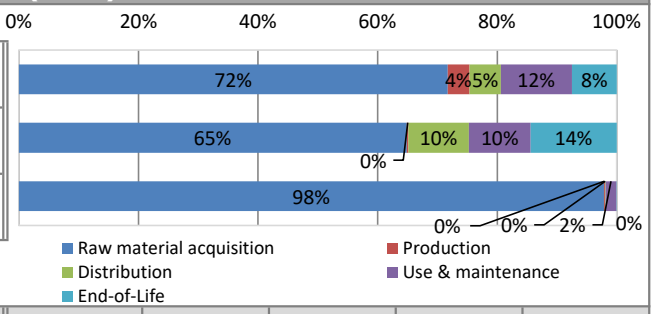
Sustainable Management Promotion Organization

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

https://ecoleaf-label.jp/

1. Results of life cycle impact assessment (LCIA)

Global warming IPCC2013 GWP100a	910	kg-CO2eq
Acidification	0. 78	kg-SO2eq
Resources consumption	0. 12	kg-Sbeq



Parameter \ stage	Unit	Total	Raw material acquisition	Production	Distribution	Use & maintenance	End-of-Life
Global warming IPCC2013 GWP100a	kg-CO_2eq	9.1E+02	6.4E+02	5.0E+01	4.7E+01	1.1E+02	6.7E+01
Acidification	kg-SO_2eq	7.8E-01	5.1E-01	4.5E-03	7.9E-02	7.2E-02	1.1E-01
Resources consumption	kg-Sbeq	1.2E-01	1.2E-01	1.3E-04	2.0E-04	2.3E-03	5.0E-05

2. Life cycle inventory analysis (LCI)

Parameter		Unit
Non-renewable material resources	9.2E+01	kg
Renewable material resources	1.6E+02	kg

3. Material composition

Material		Unit
Steel	38	%
SUS	2	%
Aluminum	1	%
Other metal	6	%
Plastic	28	%
Rubber	0	%
Glass	2	%
Paper and wood	14	%
Circuit Board	1	%

5. Additional explanation

- Product destination: North America
- Calculation method of use stage (scenario)
  - Expected usage period: 5 years
  - Estimated number of use: 240,000 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 Perfomance IJ)

* In accordance with the ENERGY STAR® Ver.3.0.
240,000 sheets = (32 pages x 25 jobs/day x 5 days) / 4 x 4 weeks x 12 months x 5 years

- This product and main compornents are produced in our ISO 14001 certified factories.
- Compliant with the International Energy Star Program Ver.3.0.
- It also complies with the European RoHS Directive.

7. Assumptions of secondary data used

We used IDEA v2.1.3 and SuMPO Environmental Label Program registration intensity v1.13.
The basic unit list used is as follows.

1. Product Info

No	Unit name	field
2	electroplated steel plate	Material manufacturing (metal)
3	Hot dip plated steel plate	
4	painted steel plate	
5	electromagnetic steel plate	
6	stainless steel plate	
7	Cu board	
8	AI board	
16	glass	Material manufacturing (inorganic chemistry)
27	PE (low density)	Material manufacturing (synthetic resin)
28	PP	
29	PS	
30	PVC	
32	PC (Polycarbonate)	
34	POM (Polyacetal)	
36	ABS	
38	MMA resin	
39	PA66 (Polyamide 66)	
43	Soft urethane foam (for automobiles)	
45	Unsaturated polyester (UP)	
48	Nitrile butadiene rubber (NBR)	Material manufacturing (rubber)
49	Styrene butadiene rubber (SBR)	
67	Cardboard	Material manufacturing (paper/wood)
68	Paperboard	
69	Western paper	
71	Wood chips (Foreign)	
75	laminated substrate	Parts manufacturing (general)
76	mounting circuit board	
78	medium motor	
85	iron press	processing
86	Nonferrous press	
87	Injection molding processing	
89	glass molding	
90	Parts processing	assembly

2. Manufacturing - 5. Disposal/recycling

No	Basic unit name	field
2	electroplated steel plate	Material manufacturing (metal)
3	Hot dip plated steel plate	
4	painted steel plate	
5	electromagnetic steel plate	
6	stainless steel plate	
7	Cu plate	
8	aluminum plate	
16	glass	Material manufacturing (inorganic chemistry)
27	PE (low density)	
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78	medium motor	
85	iron press	processing
86	Nonferrous press	
87	Injection molding processing	
89	glass molding	
90	Parts processing	assembly
92	4t truck	transportation
93	10t truck	
95	20t truck	
96	Freight rail transport	
97	cargo shipping	
99	electric power	Electric power/fuel
100	Heavy oil for fuel	
101	Light oil for fuel	
102	kerosene for fuel	
110	heavy oil	
111	light oil	
112	kerosene	
117	City gas (m3)	
118	LPG	
119	LNG	
125	industrial water	Utilities (water)
126	Tap water (kg)	
129	Crushing	Disposal/recycling (crushing/sorting)
133	Waste incineration/ash landfill	Disposal/Recycling (Incineration/Landfill)
134	Industrial waste incineration	
137	industrial waste landfill	

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/)