



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-20074E-A

Ecoleaf Environmental Labeling Program

Sustainable Management Promotion Organization

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

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

RISO KAGAKU CORPORATION

RISOComColor FT5230
(High-speed color printer)



※This product has a scanner, which is excluded for this calculation.

Functional unit

Per unit product

System boundary

- final products
- intermediate products

Raw material acquisition,
Production, Distribution, Use & maintenance, and
End-of-Life stage

Main specifications of the product

Model name: RISO ComColor FT5230

Main Specifications

- Printer (High Performance Inkjet)
- Color
- Print speed: 120ppm (single-sided A4 sheets)
- Maximum paper size (standard cassette): A3W

※This product is for North America.

Company Information

RISO KAGAKU CORPORATION

<https://www.riso.co.jp/>

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Registration#	JR-AI-20074E-A
PCR number	PA-590000-AI-03
PCR name	Imaging input and/or output equipment
Publication date	1/31/2020
Verification date	7/2/2020
Verification method	Product-by-product
Verification#	JV-AI-20074
Expiration date	7/1/2025
PCR review was conducted by:	
Approval date	11/8/2019
PCR review panel chair	Masayuki Kanzaki (Sustainable Management Promotion Organization)

Third party verifier*

Koichi Shobatake

Independent verification of data & declaration in accordance with ISO14025

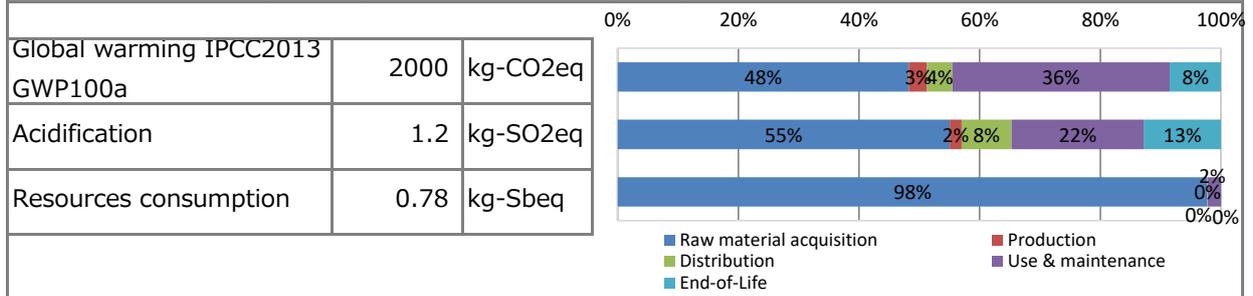
internal external

*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 ₂ eq	2.0E+03	9.7E+02	6.1E+01	8.4E+01	7.3E+02	1.7E+02
Acidification		kg-SO ₂ eq	1.2E+00	6.5E-01	2.3E-02	9.8E-02	2.6E-01	1.5E-01
Resources consumption		kg-Sbeq	7.8E-01	7.6E-01	2.6E-04	2.3E-04	1.7E-02	1.8E-04

2. Life cycle inventory analysis (LCI)

Parameter	Unit	Value
Non-renewable material resources	kg	1.2E+02
Non-renewable energy resources	MJ	3.1E+04
Renewable material resources	kg	2.4E+02
Renewable primary energy	MJ	7.1E+02
Consumption of freshwater	m ³	2.2E+00

3. Material composition

Material	Unit	Value
Steel	kg	7.1E+01
SUS	kg	3.8E+00
Aluminum	kg	1.7E+00
Copper	kg	3.4E+00
Other metal	kg	2.1E-01
Plastic	kg	6.1E+01
Rubber	kg	4.0E-01
Paper and wood	kg	2.0E+01
Circuit Board	kg	4.5E+00
Others	kg	0.0E+00

5. Additional explanation

- Product destination: North America
- Calculation method of use stage (scenario)
 - Expected usage period: five years.
 - Total estimated number of sheets used: 2,160,000 sheets.
 - Patterns to be printed are as follows:
 - Printining rates for A4: Monochrome(K) : 5%
YMCK(four colors) : 5% each
 - Ratio of color printing to monochrome printng: 1:1
 - Printing paper is not considered.
 - Products selected in the scenario used for this inventory calculation: Printer (High Performance IJ).
- Conformed to the International ENERGY STAR[®] Version 3.0 Program.



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6-1. Supplementary environmental information

- This product is assembled and its inks are produced at our factory certified with ISO 14001.
- The applied International ENERGY STAR® Program Version is 3.0.
- The EU RoHS Directive is complied.

7. Assumptions of secondary data used

- Inventory Database: IDEA Version 2.1.3, and Ecoleaf Environmental Labeling Program Registry data Version 1.07 are used.
- Basic units for this calculation are shown on a list in the attached sheet.

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/>)

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Attached sheet : Basic unit list

The basic units below are used to get the Ecoleaf Environmental Labeling Program for this product.

painted printing paper	polyester polyol	rolled and drawn copper products
miscellaneous paperboard	nylon long and short fibers	rolled and drawn bronze products
corrugated board box	varnish for printing ink	rolled aluminium products
miscellaneous pulp, paper and	energy, liquefied petroleum gas	electric wire and cable, except
acrylamide	rigid plastic flat plates, polyvinyl	aluminium and aluminium alloy die
polyethylene, high density (HDPE)	plastic pipes, polyvinyl chloride	machine press processing
low density polyethylene	packaging material, HDPE bag	bolts and nuts
expanded polystyrene (EPS)	plastic molding processing, inflation	rivets
acrylonitrile butadiene styrene resin	polyurethane, flexible	neodymium magnet (NdFeB)
acrylonitrile butadiene styrene	polyurethane, foamed	pallets
polypropylene	steel electrogalvanization	electricity, Japan, 2014FY
polyamide resin	iron sinter	electricity, United States, IEA, 2011
polytetrafluoroethylene	ordinary steel cold rolled steel	rail transportation, freight
polyethylene terephthalate	electrogalvanized steel sheet	truck transportation, 2t truck,
polyacetal	ordinary steel wires	truck transportation, 10t truck,
polycarbonate	free cutting steel	truck transportation, 20t truck,
miscellaneous plastic	stainless steel bars	ship transportation, container ship
polybutylene terephthalate	stainless steel cold rolled steel	landfill, industrial wastes
ethylene propylene diene	stainless steel, cold rolled sheets	incineration, industrial waste,
chloroprene rubber, butadiene	stainless steel, cold rolled sheets	incineration, industrial waste,
butadiene rubber latex	regenerated copper and copper	incineration, industrial waste,
Assembled circuit board	Injection molding	-

Note: The LCI basic units for the Ecoleaf Environmental Labeling Program are used for LCA calculation. For further details of the units, refer to the website below.

URL : https://ecoleaf-label.jp/entry/application_form.html#FB-01