



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-23509E

Japan EPD Program by SuMPO

Sustainable Management Promotion Organization

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

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



Color MFD

TASKalfa

MA4500ci(US)

KYOCERA Document Solutions Inc.

### 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 : Color MFD

TASKalfa MA4500ci(US)

Making Technology : Electrophotographic Printer (EP)

Printng Speed: Color 45 pages per minute in A4

Monochrome 45 pages per minute in A4

Printing paper : Maximum Folio (Legal)

Duplex function: Standard

### Company Information

KYOCERA Document Solutions Inc.

Quality Assurance Division Reliability Assurance Section 11

TEL : 06-6764-3764

<http://www.kyoceradocumentsolutions.co.jp/>

Registration#	JR-AI-23509E
PCR number	PA-590000-AI-08
PCR name	Imaging input and/or output equipment
Publication date	12/25/2023
Verification date	12/15/2023
Verification method	System certificaion
Verification#	JV-AI-23509E
Expiration date	12/14/2028
PCR review was conducted by:	
Approval date	9/1/2023
PCR review panel chair	Masayuki Kanzaki Sustainable Management Promotion Organization

### Third party verifier\*

Wataru Kawamura

Independent verification of data & declaration in accordance with ISO14025

internal

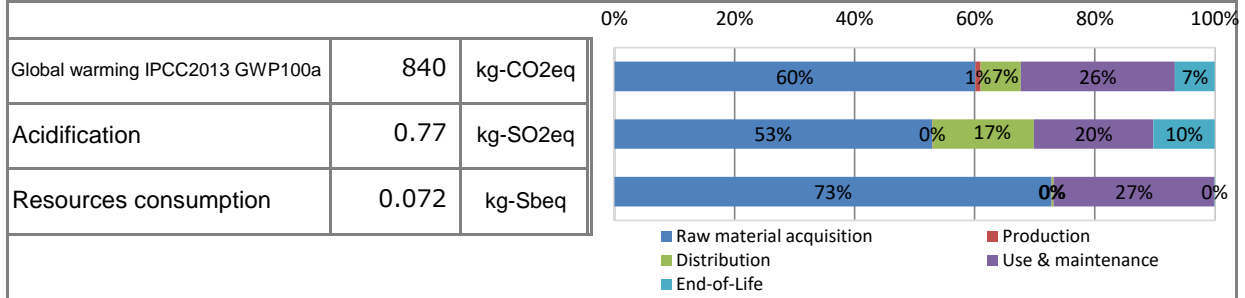
external

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

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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 <sub>2</sub> eq	8.4E+02	5.1E+02	7.3E+00	5.7E+01	2.2E+02	5.6E+01
Acidification		kg-SO <sub>2</sub> eq	7.7E-01	4.0E-01	7.3E-04	1.3E-01	1.5E-01	7.8E-02
Resources consumption		kg-Sbeq	7.2E-02	5.3E-02	1.8E-05	2.4E-04	1.9E-02	6.6E-05

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

Parameter	Unit
Non-renewable material resources	4.2E+01 kg
Non-renewable energy resources	1.3E+04 MJ
Renewable material resources	1.5E+02 kg
Renewable primary energy	2.5E+02 MJ

### 3. Material composition

Material	Unit
Steel	1.2E+01 kg
SUS	1.5E+00 kg
Cu	9.9E-01 kg
Al	3.2E-01 kg
Glass	1.2E+00 kg
Thermoplastics resin	2.0E+01 kg
Thermosetting resin	2.7E-01 kg
Rubber	4.6E-02 kg
Paper	1.3E+01 kg
Assembled circuit board	3.9E+00 kg
Medium-sized motor	2.3E+00 kg

### 5. Additional explanation

- Product destination: North America
- Calculation method of use stage (scenario)
  - ① Expected usage period: five years
  - ② Estimated number of sheets used: Monochrome 148,800 Color 148,800
  - ③ The impact of printing paper is not included
- Products selected in the scenario used for inventory calculation : Copier, Printer and Multifunction device (EP)
- Conformed to the International ENERGY STAR® Ver3.2 Program
- Consumables will be shipped directly from the factory to the country of sale separately from the product body and all of them are accounted for in the use and maintenance



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#### 6-1. Supplementary environmental information

- Conformed to the International ENERGY STAR® Program
- Manufactured at ISO14001 certified factories.
- Halogenated flame retardants are not used in Plastic housing and outer package.

#### 7. Assumptions of secondary data used

IDEA v2.1.3 and Japan EPD Program by SuMPO Registry data v1.13

#### 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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