



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-24328E

Japan EPD Program by SuMPO

Sustainable Management Promotion Organization

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

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

**TOSHIBA**

Toshiba Tec Corporation

Multifunctional Digital Color Systems

**e-STUDIO2021AC**



### 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: e-STUDIO2021AC

- Digital Color MFD (EP Type)
- Print speed: Color 20ppm (LT)  
Monochrome 20ppm (LT)

- Maximum paper size: LD
- Automatic duplex printing

### Company Information

Development Promotion Section

Technology Development Department

Technology Development Center

Workplace Solution Products Business Division

ETRIA Co., Ltd.

<https://etria.global/>

Registration#	JR-AI-24328E
PCR number	PA-590000-AI-08
PCR name	Imaging input and/or output equipment
Publication date	30-Aug-2024
Verification date	29-Jul-2024
Verification method	Product-by-product
Verification#	JV-AI-24328
Expiration date	28-Jul-2029

### PCR review was conducted by:

Approval date	1-Sep-2023
PCR review panel chair	Masayuki Kanzaki (Sustainable Management Promotion Organization)

### Third party verifier\*

Takahiro Atou

Independent verification of data & declaration in accordance with ISO14025

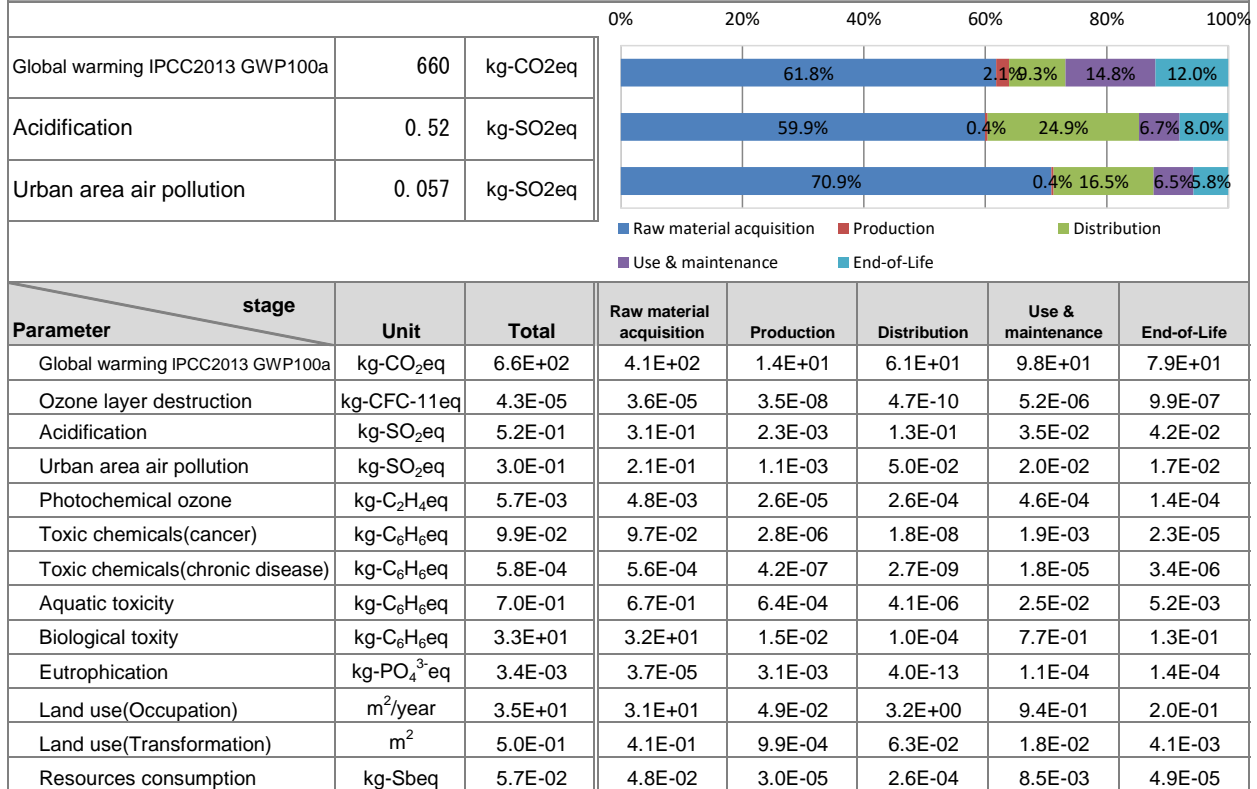
internal       external

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

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1. Results of life cycle impact assessment (LCIA)



2. Life cycle inventory analysis (LCI)

Parameter	Value	Unit
Non-renewable material resources	4.6E+01	kg
Non-renewable energy resources	2.3E+02	kg
Non-renewable energy resources	9.8E+03	MJ
Renewable material resources	8.4E+01	kg
Renewable primary energy	1.8E+02	MJ
Consumption of freshwater	8.3E-01	m <sup>3</sup>
Emissions, carbon dioxide (fossil), air, unspecified	6.2E+02	kg
Resources, crude oil, 44.7MJ/kg, ground, Non-renewable energy resources	9.6E+01	kg
Emissions, volatile organic compound, air, unspecified	1.8E-05	kg

3. Material composition

Material	Value	Unit
Ordinary steel	45	%
SUS	1	%
Other metals	1	%
Aluminium	1	%
Glass	4	%
Thermoplastic resin	28	%
Thermosetting resin	0	%
Rubber	0	%
Paper	7	%
Wood	7	%
Circuit Board	3	%
Medium-sized motor	3	%

\*Data derived from LCA and not assigned to the impact categories of LCIA

5. Additional explanation

- Product destination: North America
- Calculation method of use stage (scenario)
  - Expected usage period: five years
  - Estimated number of use: 60,000 sheets\*
  - Print measuring method (pattern): ISO/IEC 19798
  - Automatic Document Feeder ,Paper Feed Unit and Paper Feed Pedestal is optional,its impact is not included.
  - Inventory of the print paper is not included
- Products selected in the scenario used for Inventory
  - Multifunction device (EP type)

\* Electric power in the use and maintenance stage is evaluated using TEC value according to International ENERGY STAR program Version3.2 and the public electric-power-consumption-rate in the United States.  
 (20 jobs/day) x (10 sheets/job) x (1/4) x 5days x 4weeks x12months x 5years = 60,000 sheets



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#### 6-1. Supplementary environmental information

-This product is produced in our ISO 14001 certified factories.

-ENERGY STAR®Ver.3.2 qualified.

-EU RoHS2 compliant.

#### 7. Assumptions of secondary data used

-Inventory Database:LCI Database IDEA v2.1.3,Japan EPD Program by SuMPO registered 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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