



EcoLeaf

Type III Environmental Declaration (EPD)

Japan EPD Program by SuMPO

Sustainable Management Promotion Organization

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

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

Registration number : JR-AI-23205E

TOSHIBA

Toshiba Tec Corporation

Multifunctional Digital Monochrom Systems

e-STUDIO9029A



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-STUDIO9029A

- Digital Monochrome MFD (EP Type)
- Print speed: 90ppm (LT)
- Maximum paper size: 13" x 19"
- Copy/Print/Scan/Fax
- Automatic duplex printing, dual-Scan Document Feeding

Company Information

Toshiba Tec Corporation

Engineering Planning Group

Engineering Planning Dept.

TEL: +81-55-976-7011

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

Registration#	JR-AI-23205E
PCR number	PA-590000-AI-07
PCR name	Imaging input and/or output equipment
Publication date	7/31/2023
Verification date	7/11/2023
Verification method	Product-by-product
Verification#	JV-AI-23205
Expiration date	7/10/2028
PCR review was conducted by:	
Approval date	4/24/2023
PCR review panel chair	Masayuki Kanzaki Sustainable Management Promotion Organization

Third party verifier*

Kazuo Naito

Independent verification of data & declaration in accordance with ISO14025

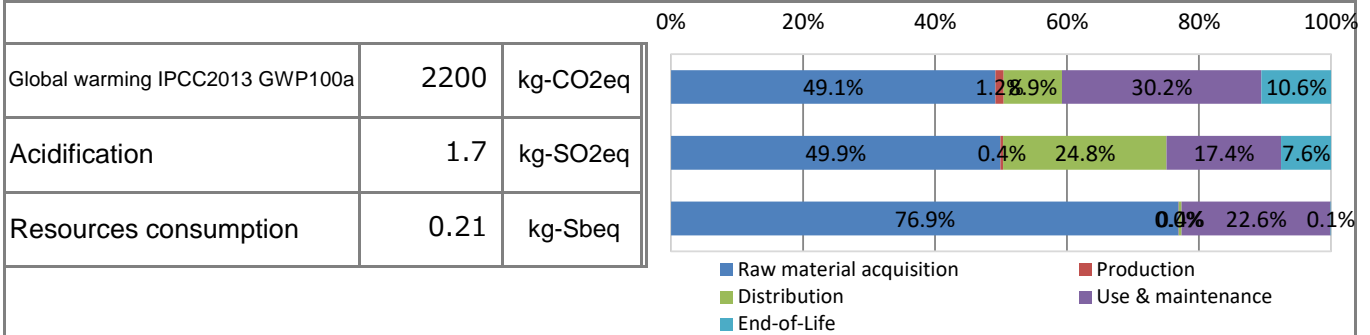
internal external

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

Registration number : JR-AI-23205E



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	2.2E+03	1.1E+03	2.8E+01	2.0E+02	6.8E+02	2.4E+02
Ozone layer destruction		kg-CFC-11eq	1.3E-04	9.2E-05	3.3E-08	1.5E-09	3.0E-05	3.5E-06
Acidification		kg-SO ₂ eq	1.7E+00	8.5E-01	7.2E-03	4.2E-01	2.9E-01	1.3E-01
Urban area air pollution		kg-SO ₂ eq	9.8E-01	5.8E-01	2.6E-03	1.6E-01	1.8E-01	5.7E-02
Photochemical ozone		kg-C ₂ H ₄ eq	1.7E-02	1.2E-02	3.3E-04	8.6E-04	3.3E-03	5.0E-04
Toxic chemicals(cancer)		kg-C ₆ H ₆ eq	2.7E-01	2.6E-01	6.9E-05	6.0E-08	6.1E-03	7.7E-05
Toxic chemicals(chronic disease)		kg-C ₆ H ₆ eq	1.6E-03	1.5E-03	1.0E-05	8.8E-09	1.0E-04	1.1E-05
Aquatic toxicity		kg-C ₆ H ₆ eq	2.0E+00	1.8E+00	1.5E-02	1.3E-05	1.5E-01	1.7E-02
Biological toxicity		kg-C ₆ H ₆ eq	9.6E+01	9.1E+01	3.7E-01	3.3E-04	4.2E+00	4.2E-01
Eutrophication		kg-PO ₄ ³⁻ eq	6.5E-03	1.1E-04	3.1E-03	1.3E-12	2.8E-03	5.1E-04
Land use(Occupation)		m ² /year	1.1E+02	9.0E+01	6.0E-02	1.0E+01	6.9E+00	7.5E-01
Land use(Transformation)		m ²	1.5E+00	1.2E+00	1.2E-03	2.1E-01	1.3E-01	1.5E-02
Resources consumption		kg-Sbeq	2.1E-01	1.6E-01	1.0E-04	8.4E-04	4.7E-02	1.7E-04

2. Life cycle inventory analysis (LCI)

Parameter	Value	Unit
Non-renewable material resources	1.7E+02	kg
Non-renewable energy resources	3.4E+04	MJ
Renewable material resources	2.6E+02	kg
Renewable primary energy	6.9E+02	MJ

3. Material composition

Material	Value	Unit
Ordinary steel	1.2E+02	kg
SUS	2.5E+00	kg
Other metals	3.1E+00	kg
Aluminium	1.7E+00	kg
Glass	2.6E+00	kg
Thermoplastic resin	4.8E+01	kg
Thermosetting resin	1.4E-01	kg
Rubber	8.7E-01	kg
Paper	2.2E+01	kg
Wood	1.5E+01	kg
Circuit Board	3.1E+00	kg
Medium-sized motor	7.9E+00	kg



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-23205E

Japan EPD Program by SuMPO

Sustainable Management Promotion Organization

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

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

5. Additional explanation

-Product destination: United states of america

-Calculation method of use stage (scenario)

- Expected usage period: five years
- Estimated number of use: 1,209,600 sheets*
- Print measuring method (pattern): ISO/IEC 19752
- Inventory of the print paper is not included

- Products selected in the scenario used for Inventory

- 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.
(32 jobs/day) x (126 sheets/job) x (1/4) x 5days x 4weeks x12months x5years = 1,209,600 sheets

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

-

- 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/>)

Registration number : JR-AI-23205E