



EcoLeaf
Type III Environmental Declaration (EPD)

Registration number : JR-AI-23397E

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 Monochrom Systems

e-STUDIO6529A



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-STUDIO6529A

- Digital Monochrome MFD (EP Type)
- Print speed: 65ppm (LT)
- Maximum paper size: 13" x 19"
- Copy/Print/Scan/Fax
- Automatic duplex printing, dual-Scan Document Feeding

Company Information

Toshiba Tec Corporation

Engineering Promotion Group

Engineering Promotion Dept.

TEL: +81-55-976-7011

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

Registration#	JR-AI-23397E
PCR number	PA-590000-AI-08
PCR name	Imaging input and/or output equipment
Publication date	12/11/2023
Verification date	11/6/2023
Verification method	Product-by-product
Verification#	JV-AI-23397
Expiration date	11/5/2028
PCR review was conducted by:	
Approval date	9/1/2023
PCR review panel chair	Masayuki Kanzaki Sustainable Management Promotion Organization

Third party verifier*

Hiromi Horikawa

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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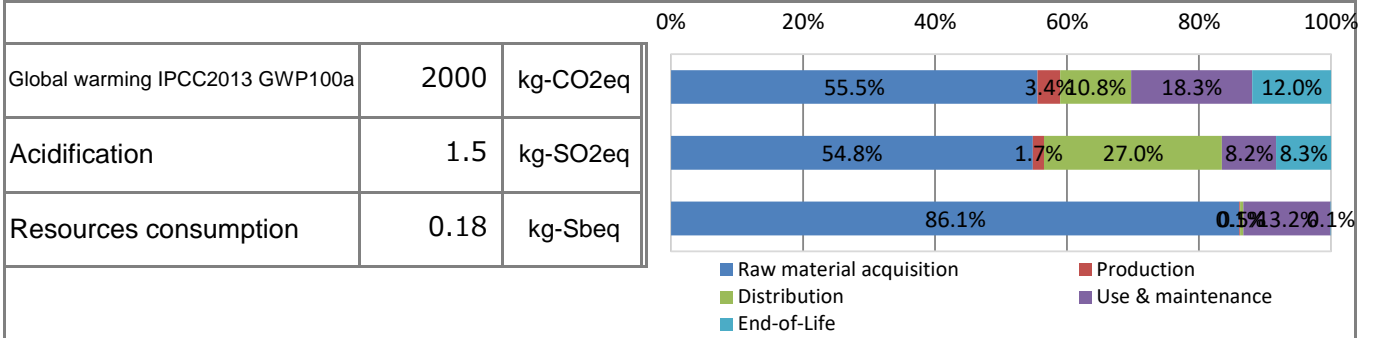
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1. Results of life cycle impact assessment (LCIA)



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	1.1E+03	6.8E+01	2.1E+02	3.6E+02	2.4E+02
Ozone layer destruction		kg-CFC-11eq	1.1E-04	9.2E-05	3.4E-08	1.6E-09	1.5E-05	3.5E-06
Acidification		kg-SO ₂ eq	1.5E+00	8.5E-01	2.6E-02	4.2E-01	1.3E-01	1.3E-01
Urban area air pollution		kg-SO ₂ eq	8.8E-01	5.8E-01	1.3E-02	1.6E-01	7.2E-02	5.7E-02
Photochemical ozone		kg-C ₂ H ₄ eq	1.5E-02	1.2E-02	4.2E-04	8.5E-04	1.6E-03	5.0E-04
Toxic chemicals(cancer)		kg-C ₆ H ₆ eq	2.7E-01	2.6E-01	6.9E-05	6.3E-08	3.1E-03	7.7E-05
Toxic chemicals(chronic disease)		kg-C ₆ H ₆ eq	1.6E-03	1.5E-03	1.0E-05	9.4E-09	5.0E-05	1.1E-05
Aquatic toxicity		kg-C ₆ H ₆ eq	1.9E+00	1.8E+00	1.5E-02	1.4E-05	7.3E-02	1.7E-02
Biological toxicity		kg-C ₆ H ₆ eq	9.4E+01	9.1E+01	3.7E-01	3.5E-04	2.0E+00	4.2E-01
Eutrophication		kg-PO ₄ ³⁻ eq	4.6E-03	1.1E-04	3.1E-03	1.4E-12	7.8E-04	5.1E-04
Land use(Occupation)		m ² /year	1.0E+02	9.0E+01	3.4E-01	1.0E+01	3.4E+00	7.5E-01
Land use(Transformation)		m ²	1.5E+00	1.2E+00	6.8E-03	2.0E-01	6.3E-02	1.5E-02
Resources consumption		kg-Sbeq	1.8E-01	1.6E-01	2.5E-04	9.0E-04	2.4E-02	1.7E-04

2. Life cycle inventory analysis (LCI)

Parameter	Unit
Non-renewable material resources	1.7E+02 kg
Non-renewable energy resources	2.9E+04 MJ
Renewable material resources	2.4E+02 kg
Renewable primary energy	5.3E+02 MJ

3. Material composition

Material	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



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5. Additional explanation

-Product destination: United states of america

-Calculation method of use stage (scenario)

- Expected usage period: five years
- Estimated number of use: 633,600 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 (66 sheets/job) x (1/4) x 5days x 4weeks x12months x5years = 633,600 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

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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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