



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-22191E

Japan EPD Program by SuMPO

Sustainable Management Promotion Organization

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

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

TOSHIBA

Toshiba Tec Corporation

Multifunctional Digital Color Systems

e-STUDIO5525AC



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-STUDIO5525AC

■ Digital Color MFD (EP Type)

■ Print speed: Color 55ppm (LT)

Monochrome 55ppm (LT)

■ Maximum paper size: LD

■ Automatic duplex printing

Company Information

Toshiba Tec Corporation

Engineering Planning Group

Engineering Planning Dept.

TEL: +81-55-976-7011

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

Registration#	JR-AI-22191E
PCR number	PA-590000-AI-04
PCR name	Imaging input and/or output equipment
Publication date	8/31/2022
Verification date	8/18/2022
Verification method	Product-by-product
Verification#	JV-AI-22191
Expiration date	8/17/2027
PCR review was conducted by:	
Approval date	4/1/2022
PCR review panel chair	Masayuki Kanzaki (Sustainable Management Promotion Organization)

Third party verifier*

Hiroyuki Nakamura

Independent verification of data & declaration in accordance with ISO14025

internal

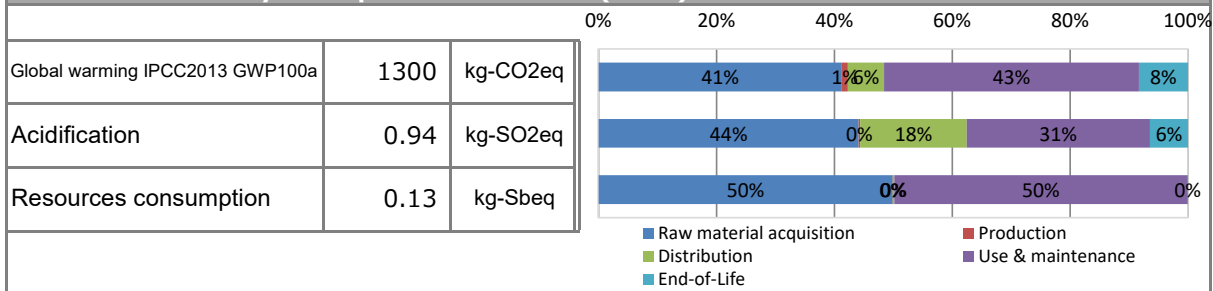
external

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

Registration number : JR-AI-22191E



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	1.3E+03	5.5E+02	1.4E+01	8.1E+01	5.8E+02	1.1E+02
Ozone layer destruction		kg-CFC-11eq	9.7E-05	5.3E-05	3.2E-08	6.2E-10	4.3E-05	1.3E-06
Acidification		kg-SO ₂ eq	9.4E-01	4.2E-01	2.3E-03	1.7E-01	2.9E-01	6.1E-02
Urban area air pollution		kg-SO ₂ eq	5.6E-01	2.9E-01	1.1E-03	6.6E-02	1.8E-01	2.6E-02
Photochemical ozone		kg-C ₂ H ₄ eq	1.0E-02	6.4E-03	2.5E-05	3.5E-04	3.1E-03	2.0E-04
Toxic chemicals(cancer)		kg-C ₆ H ₆ eq	1.6E-01	1.4E-01	2.7E-06	2.4E-08	1.4E-02	3.2E-05
Toxic chemicals(chronic disease)		kg-C ₆ H ₆ eq	8.7E-04	7.5E-04	4.0E-07	3.6E-09	1.2E-04	4.7E-06
Aquatic toxicity		kg-C ₆ H ₆ eq	1.1E+00	9.1E-01	6.1E-04	5.5E-06	1.7E-01	7.2E-03
Biological toxicity		kg-C ₆ H ₆ eq	4.6E+01	4.1E+01	1.5E-02	1.3E-04	5.4E+00	1.7E-01
Eutrophication		kg-PO ₄ ³⁻ eq	4.8E-03	4.5E-05	2.9E-03	5.4E-13	1.7E-03	1.9E-04
Land use(Occupation)		m ² /year	4.6E+01	3.3E+01	4.8E-02	4.2E+00	8.7E+00	2.9E-01
Land use(Transformation)		m ²	7.0E-01	4.6E-01	9.6E-04	8.4E-02	1.5E-01	5.8E-03
Resources consumption		kg-Sbeq	1.3E-01	6.7E-02	2.9E-05	3.4E-04	6.7E-02	6.8E-05

2. Life cycle inventory analysis (LCI)

項目	Value	単位
Non-renewable material resources	6.3E+01	kg
Non-renewable energy resources	2.1E+04	MJ
Renewable material resources	1.6E+02	kg
Renewable primary energy	4.5E+02	MJ

3. Material composition

Material	Value	Unit
Ordinary steel	4.0E+01	kg
SUS	7.2E-01	kg
Other metals	1.7E+00	kg
Aluminium	5.1E-01	kg
Glass	3.1E+00	kg
Thermoplastic resin	2.7E+01	kg
Thermosetting resin	2.1E-01	kg
Rubber	1.0E+00	kg
Paper	8.6E+00	kg
Wood	5.3E+00	kg
Circuit Board	2.4E+00	kg
Medium-sized motor	3.2E+00	kg



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-AI-22191E

Japan EPD Program by SuMPO

Sustainable Management Promotion Organization

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

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

5. Additional explanation

-Product destination: North America

-Calculation method of use stage (scenario)

- Expected usage period: five years

- Estimated number of use: 451,200 sheets*

- Print measuring method (pattern): ISO/IEC 19798

- Automatic Document Feeder 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 Version3.1 and the public electric-power-consumption-rate in the United States.
(32 jobs/day) x (47 sheets/job) x (1/4) x 5days x 4weeks x12months x5years = 451,200 sheets

6-1. Supplementary environmental information

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

-ENERGY STAR®Ver.3.1 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 v1.10.

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-22191E