TOSHIBA
Toshiba Tec Corporation

Multifunctional Digital Monochrome Systems
e-STUDIO2528A

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-STUDIO2528A
■Digital Color MFD（EP Type)
■Print speed: 25ppm（LT)
■Maximum paper size: LD
■Automatic duplex printing

Company Information
Toshiba Tec Corporation
Engineering Planning Group
Engineering Planning Dept.
TEL: +81-55-976-7011
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Registration#	JR-AI-22193E
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-22193
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.

EcoLeaf

Type III Environmental Declaration (EPD)

Registration number： JR-AI-22193E

Japan EPD Program by SuMPO

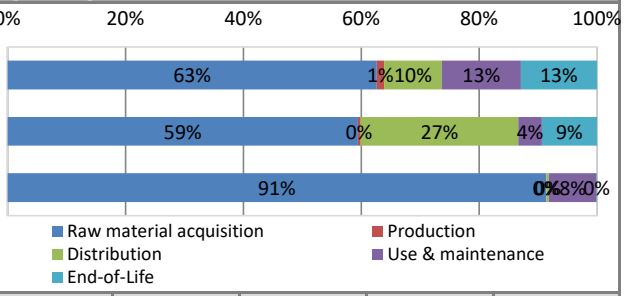
Sustainable Management Promotion Organization

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

https://ecoleaf-label.jp/

1. Results of life cycle impact assessment (LCIA)

Global warming IPCC2013 GWP100a	590	kg-CO2eq
Acidification	0.45	kg-SO2eq
Resources consumption	0.055	kg-Sbeq



Parameter \ stage	Unit	Total	Raw material acquisition	Production	Distribution	Use & maintenance	End-of-Life
Global warming IPCC2013 GWP100a	kg-CO_2eq	5.9E+02	3.7E+02	7.4E+00	5.7E+01	7.9E+01	7.6E+01
Ozone layer destruction	kg-CFC-11eq	4.2E-05	3.8E-05	7.0E-08	4.4E-10	2.6E-06	9.4E-07
Acidification	kg-SO_2eq	4.5E-01	2.7E-01	2.0E-03	1.2E-01	1.8E-02	4.2E-02
Urban area air pollution	kg-SO_2eq	2.6E-01	1.8E-01	1.0E-03	4.6E-02	9.8E-03	1.8E-02
Photochemical ozone	kg-C_2H_4eq	4.9E-03	4.3E-03	5.2E-05	2.5E-04	2.4E-04	1.4E-04
Toxic chemicals(cancer)	kg-C_6H_6eq	8.9E-02	8.8E-02	1.0E-05	1.7E-08	9.1E-04	2.2E-05
Toxic chemicals(chronic disease)	kg-C_6H_6eq	4.8E-04	4.6E-04	1.5E-06	2.5E-09	8.3E-06	3.3E-06
Aquatic toxicity	kg-C_6H_6eq	5.9E-01	5.7E-01	2.3E-03	3.9E-06	1.2E-02	5.1E-03
Biological toxity	kg-C_6H_6eq	2.5E+01	2.5E+01	5.5E-02	9.4E-05	3.4E-01	1.2E-01
Eutrophication	kg-PO_4^{3-}eq	4.6E-04	2.8E-05	2.3E-04	3.8E-13	5.8E-05	1.3E-04
Land use(Occupation)	m^2/year	3.4E+01	3.1E+01	1.4E-02	3.0E+00	4.8E-01	2.0E-01
Land use(Transformation)	m^2	4.9E-01	4.1E-01	2.9E-04	5.9E-02	9.5E-03	4.0E-03
Resources consumption	kg-Sbeq	5.5E-02	5.0E-02	2.2E-05	2.4E-04	4.4E-03	4.7E-05

2. Life cycle inventory analysis (LCI)

項目		単位
Non-renewable material resources	4.1E+01	kg
Non-renewable energy resources	8.7E+03	MJ
Renewable material resources	7.4E+01	kg
Renewable primary energy	1.6E+02	MJ

3. Material composition

Material		Unit
Ordinary steel	3.0E+01	kg
SUS	4.5E-01	kg
Other metals	1.1E+00	kg
Aluminium	2.4E-01	kg
Glass	1.9E+00	kg
Thermoplastic resin	1.9E+01	kg
Thermosetting resin	4.7E-02	kg
Rubber	3.8E-01	kg
Paper	5.6E+00	kg
Wood	5.3E+00	kg
Circuit Board	1.6E+00	kg
Medium-sized motor	1.1E+00	kg

5. Additional explanation

-Product destination: North America
-Calculation method of use stage (scenario)
- Expected usage period: five years
- Estimated number of use: 90,000 sheets*
- Print measuring method (pattern): ISO/IEC 19798
- Automatic Document Feeder and Paper Feed Pedestal is optional,its imapact 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.
(25 jobs/day) x (12 sheets/job) x (1/4) x 5days x 4weeks x12months x5years = 90,000 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

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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/)