EcoLeaf
Type III Environmental Declaration (EPD)
Registration number： JR-AI-20092E

Ecoleaf Environmental Labeling Program
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-STUDIO400AC

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-STUDIO400AC

■Digital Color MFD（EP Type)

■Print speed: Color 42ppm（LT Vertical feed)
Monochrome 42ppm（LT Vertical feed)

■Maximum paper size: LT

■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-20092E
PCR number	PA-590000-AI-03
PCR name	Imaging input and/or output equipment
Publication date	8/31/2020
Verification date	8/25/2020
Verification method	Product-by-product
Verification#	JV-AI-20092
Expiration date	8/24/2025

PCR review was conducted by:

Approval date	11/8/2019
PCR review panel chair	Masayuki Kanzaki (Sustainable Management Promotion Organization)

Third party verifier*

Tetsuya Okuyama

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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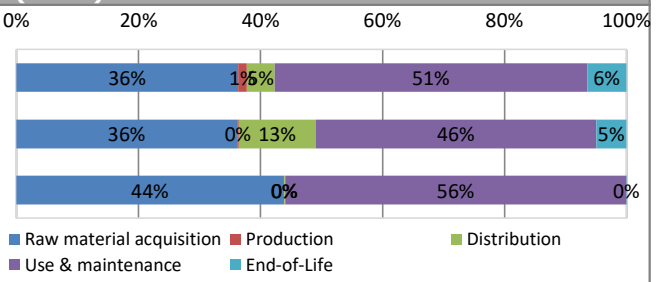
1. Results of life cycle impact assessment (LCIA)

Global warming IPCC2013 GWP100a	1200	kg-CO_2eq
Acidification	0.92	kg-SO_2eq
Resources consumption	0.13	kg-Sbeq



Parameter \ stage	Unit	Total	Raw material acquisition	Production	Distribution	Use & maintenance	End-of-Life
Global warming IPCC2013 GWP100a	kg-CO_2eq	1.2E+03	4.4E+02	1.7E+01	5.5E+01	6.1E+02	7.7E+01
Acidification	kg-SO_2eq	9.2E-01	3.3E-01	2.5E-03	1.2E-01	4.3E-01	4.6E-02
Resources consumption	kg-Sbeq	1.3E-01	5.9E-02	4.0E-05	2.3E-04	7.5E-02	3.1E-05

2. Life cycle inventory analysis (LCI)

Parameter		Unit
Non-renewable material resources	4.9E+01	kg
Non-renewable energy resources	1.9E+04	MJ
Renewable material resources	1.4E+02	kg
Renewable primary energy	3.6E+02	MJ

3. Material composition

Material		Unit
Ordinary steel	2.1E+01	kg
SUS	1.4E+00	kg
Other metals	1.2E+00	kg
Aluminium	3.5E-01	kg
Glass	1.5E+00	kg
Thermoplastic resin	2.3E+01	kg
Thermosetting resin	5.2E-02	kg
Rubber	1.4E-01	kg
Paper	5.7E+00	kg
Wood	5.7E+00	kg
Circuit Board	2.4E+00	kg
Medium-sized motor	2.2E+00	kg

5. Additional explanation

-Product destination: North America

-Calculation method of use stage (scenario)

- Expected usage period: five years
- Estimated number of use: 259,200 sheets*
- Print measuring method (pattern): ISO/IEC 19798
- Inventory of the print paper is not included

- Products selected in the scenario used for Inventory calculation
  - Multifunction device (EP type)
- Electric power in the use and maintenance stage is evaluated using TEC value according to International ENERGY STAR program Version3.0 and the public electric-power-consumption-rate in the United States.

*Print volume is assumed 259,200 sheets.
(32 jobs/day) x (27 sheets/job) x (1/4) x 5days x 4weeks x 5 years = 259,200 sheets

6-1. Supplementary environmental information

-This product is produced in our ISO 14001 certified factories.
-ENERGY STAR® Ver.3.0 qualified.
-EU RoHS compliant.

7. Assumptions of secondary data used

-Inventory Database: IDEA v2.1.3 and registered data v1.08 of Ecoleaf Environmental Labeling Program are used.

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/)