



**SHARP**

Sharp Corporation

DIGITAL FULL COLOR MULTIFUNCTIONAL SYSTEM

**BP-51C45 (EU)**

### 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 : BP-51C45

Marking technologies : Electrophotographic Printer (EP)

Print speed : Monochrome 45prints/minute (A4)

Full-color 45prints/minute (A4)

Maximum Paper Size : SRA3

Print/Copy/Scan : Standard

Duplex printing/ADF : Standard

### Company Information

SHARP CORPORATION

Smart Business Solutions BU

E-mail : ECOLAIF-BS@sharp.co.jp

|                              |                                                                   |
|------------------------------|-------------------------------------------------------------------|
| Registration#                | JR-AI-25287E                                                      |
| PCR number                   | PA-590000-AI-08                                                   |
| PCR name                     | Imaging input and/or output equipment                             |
| Publication date             | 24 October 2025                                                   |
| Verification date            | 14 October 2025                                                   |
| Verification method          | System certification                                              |
| Verification#                | FV-08-25037                                                       |
| Expiration date              | 13 October 2030                                                   |
| PCR review was conducted by: |                                                                   |
| Approval date                | 01 September 2023                                                 |
| PCR review panel chair       | Masayuki Kanzaki<br>Sustainable Management Promotion Organization |

### Third party verifier\*

Shouko Hashizume

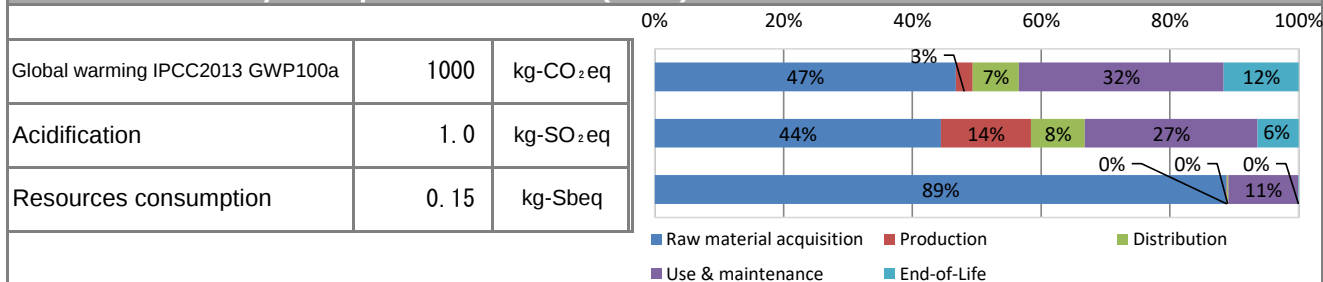
Independent verification of data & declaration in  
accordance with ISO14025

☐ internal ☒ external

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

Registration number : JR-AI-25287E

## 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 <sub>2</sub> eq | 1.0E+03 | 4.8E+02                  | 2.6E+01    | 7.3E+01      | 3.2E+02           | 1.2E+02     |
| Acidification                   |       | kg-SO <sub>2</sub> eq | 1.0E+00 | 4.6E-01                  | 1.4E-01    | 8.6E-02      | 2.8E-01           | 6.6E-02     |
| Resources consumption           |       | kg-Sbeq               | 1.5E-01 | 1.3E-01                  | 1.0E-04    | 3.1E-04      | 1.6E-02           | 1.3E-04     |

## 2. Life cycle inventory analysis (LCI)

| Parameter                        | Unit       |
|----------------------------------|------------|
| Non-renewable material resources | 7.5E+01 kg |
| Renewable material resources     | 1.6E+02 kg |

## 3. Material composition

| Material      | Unit       |
|---------------|------------|
| Steel         | 3.3E+01 kg |
| SUS           | 8.7E-01 kg |
| Aluminium     | 4.9E-01 kg |
| Other metal   | 9.4E-01 kg |
| Plastic       | 3.3E+01 kg |
| Rubber        | 1.2E-01 kg |
| Glass         | 2.1E+00 kg |
| Paper · Wood  | 1.2E+01 kg |
| Circuit Board | 1.9E+00 kg |
| Others        | 6.4E+00 kg |

## 5. Additional explanation

- Product destination: Europe
  - Calculation method of use stage (scenario)
    - Expected usage period: five years
    - Estimated number of use : 297,600 sheets  
 $32 \text{ (Jobs/Day)} \times 31 \text{ (Sheets/Job)} \div 4 \times 5 \text{ (Days/Week)} \times 4 \text{ (Weeks/Month)} \times 12 \text{ (Months/Year)} \times 5 \text{ (Years)}$   
 $= 297,600 \text{ sheets}$
  - The impact of paper for printing is not included.
  - Products selected in the scenario used for inventory calculation : Multifunction device (EP)
- ※ Calculated according to the ENERGY STAR® Ver.3.0 program.

## 6-1. Supplementary environmental information

- Assembly and production of this product, as well as production of the photoconductor and toner, which are the main components, are performed at ISO 14001-certified factories.

## 7. Assumptions of secondary data used

IDEA v3.1.0 and Japan EPD Program by SuMPO Registry data v1.15

## 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/>)
- This is a selfdeclared translation of EPD that can be accessed at <https://ecoleaf-label.jp/epd/2526> and is published for convenience purposes. Only the original EPD is valid and binding between parties.