Product Environmental Aspects Declaration

Flat-bed / Sheet-fed scanner (PCR-ID: CA-01)

Product Name

Product Category

Scanning Speed (A4L)

Scanning Size

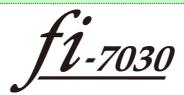
Optical Resolution

Scanning Method



No. CA-16-028 Date of publication May/11/2016





http://www.fujitsu.com/ FUJITSU LIMITED

http://www.pfu.fujitsu.com/ PFU LIMITED

* Image Scanners Contact: http://imagescanner.fujitsu.com/

PFU LIMITED Imaging Service & Support center

E-mail: scanners@pfu.fujitsu.com

| Consumption and discharge in a life cycle | All the stage sum totals |
|--|--------------------------|
| Global Warming (CO2 equivalent) | 76.2kg (71.7kg) |
| Acidification (SO2 equivalent) | 0.114kg (0.108kg) |
| Energy resources (crude oil equivalent) | 1,530MJ (1,430MJ) |
| **Figures in () indicated environmental in recycle effect *note3 | mpact including |
| Warming load CO ₂ equivalent of ea | ch stage[kg] |

fi-7030

Sheet-fed scanner (Without Flat-bed)

For Business

Simplex or Duplex, 27 ppm (54 ipm)

210mm X 297mm

600 X 600 dpi (dots per inch)

Color Contact Image Sensor X2 (Front/Back)

Image Sensor: CCD (Charge coupled device)



| | Warmin | g load CO2 | equivalent of | each stage | e[kg] |
|-------|----------|------------|---------------|----------------|-----------------|
| | | | | ■Direct Effect | ■Recycle Effect |
| 60 | | | | | |
| 50 | - | | | 43.1 | |
| 40 | _ | | | | |
| 30 | 24.8 | | | | |
| 20 | - | | | | |
| 10 | - | 5.4 | 1.3 | | 1.6 |
| 0 | | | | | |
| -10 | - | | | -2.1 | -2.4 |
| -20 l | | | | | |
| | Raw | Product | Distribution | Use | Disposition |
| | material | | | | |

The burdens have been calculated with 15 scans per day, a monthly use of 20 days, and 5 years of use, for the number of scans of 18,000 times (4,800,000 pages) overall.

Notes:

- 1. Original LCA data is available on PEIDS: Product Environmental Information Declaration Sheet, and Product Data Sheet.
- 2. Unified rules and requirements for EcoLeaf LCA, for intended product category, are available as a PCR: Product Category Rule. Visit EcoLeaf website under JEMAI homepage at http://www.ecoleaf-jemai.jp/eng/ for details.
- 3. Recycle Effect illustrates an indirect influence to other products/services.
- 4. Basic Units used for calculations are based on Japan domestic data at this time, due to a lack of base data to establish localized Basic Unit for overseas locations adequately.
- 5. The electricity consumption during power-off is entered into the calculation, presuming that the products remain plugged even if not in use.

[Supplemental environmental information]

- · Certified regulations: Energy Star Version 2.0
- This product are produced in our factories certified to ISO14001 management system standard.
- · Conformance with RoHS Directive (2011/65/EU).

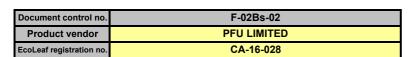
PCR review was conducted by : PCR Deliberation Committee, June 07, 2006, Name of representative: Youji Uchiyama, University of Tsukuba, Graduate School

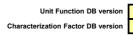
Independent verification of the declaration and data, according to ISO14025:2006 □internal ■external Third party verifier: Shozo Nakamuta*

Programme operator: Japan Environmental Management Association for Industry, ecoleaf@jemai.or.jp

^{*} In the case of an business entity certified as an Ecoleaf-data-collection system, the names of certification auditors are written.

Product Environmental Information Data Sheet (PEIDS)





v2.1

製品環境情報

| PCR name | Flat-bed / Sheet-fed | Product type | | | | | |
|----------|----------------------|---------------------|------|--------------|------|-------------------|------|
| PCR code | CA-01 | Product weight (kg) | 2.79 | Package (kg) | 1.24 | Weight total (kg) | 4.03 |

| | | | Life Cycle Stage | | Produ | uction | D: ('' '' | | 5: " | Recycle |
|--------------------|--|---------------------------------|--|----------|----------------------|----------|----------------------|----------------------|----------------------|------------------------|
| In/O | ut iten | ns | | Unit | Raw material | Product | Distribution | Use | Disposition | Effect |
| | | Enorav | Consumption | MJ | 4.59E+02 | 1.14E+02 | 1.79E+01 | 9.34E+02 | 2.32E+00 | -1.00E+02 |
| | | Ellelgy | Consumption | Mcal | 1.10E+02 | 2.73E+01 | 4.27E+00 | 2.23E+02 | 5.55E-01 | -2.40E+01 |
| | | , se | Coal | kg | 2.36E+00 | 6.92E-01 | 4.18E-05 | 5.15E+00 | 1.15E-02 | -5.64E-01 |
| | | gi ci | Crude oil (for fuel) | kg | 4.98E+00 | 7.82E-01 | 3.91E-01 | 6.20E+00 | 2.94E-02 | -6.21E-01 |
| | | Energy | LNG | kg | 9.57E-01 | 3.46E-01 | 6.04E-03 | 3.09E+00 | 6.03E-03 | -3.40E-01 |
| | | E E | Uranium content of an ore | kg | 1.02E-04 | 4.69E-05 | 2.83E-09 | 3.06E-04 | 7.74E-07 | -4.37E-06 |
| | Ë | | Crude oil (for material) | kg | 1.61E+00 | 0 | 0 | 1.01E+00 | 0 | -7.92E-01 |
| |)jj | w | Iron content of an ore | kg | 1.05E+00 | 0 | 0 | 7.12E-01 | 0 | -6.11E-01 |
| | Impact by Resource Consumption | 99 | Cu content of an ore | kg | 1.61E-01 | 0 | 0 | 0 | 0 | -2.46E-02 |
| | nsı | ᇍ | Al content of an ore | kg | 2.51E-02 | 0 | 0 | 0 | 0 | -4.23E-05 |
| | ő | SSC SS | Ni content of an ore | kg | 5.83E-03 | 0 | 0 | 9.93E-03 | 0 | -1.24E-05 |
| | 0 | 2 2 | C content of an ore | kg | 8.15E-03 | 0 | 0 | 1.37E-02 | 0 | -2.27E-04 |
| | 2 | ᅙᆝᄚ | Mn content of an ore | kg | 4.89E-03 | 0 | 0 | 5.38E-03 | 0 | -5.31E-04 |
| | our | rustible res | Pb content of an ore | kg | 8.49E-03 | 0 | 0 | 0 | 0 | -2.00E-03 |
| | Ses | | Sn content of an ore | kg | 0 | 0 | 0 | 0 | 0 | 0 |
| | <u>κ</u> | Exha | Zn content of an ore | kg | 8.35E-02 | 0 | 0 | 0 | 0 | -1.96E-02 |
| | á | ਜ਼ ਜ਼ | Au content of an ore | kg | 0 | 0 | 0 | 0 | 0 | 0 |
| | acı | | Ag content of an ore | kg | 0 | 0 | 0 | 0 | 0 | 0 |
| es | du | | Silica Sand | kg | 1.46E-01 | 0 | 0 | 8.27E-03 | 0 | -2.65E-02 |
| λŠ | = | | Halite | kg | 3.83E-01 | 4.48E-07 | 0 | 4.90E-04 | 9.08E-04 | -4.58E-03 |
| Jai | | | Limestone | kg | 2.69E-01 | 0 | 0 | 1.55E-01 | 1.46E-02 | -1.09E-01 |
| ā | | | Natural soda ash | kg | 1.22E-02 | 0 | 0 | 0 | 0 | -1.79E-03 |
| 9 | | Renewable | | kg | 1.47E+00 | 0 | 0 | 3.55E+00 | 0 | -2.48E+00 |
| Inventory anaiyses | | resources | | kg | 2.52E+03 | 5.24E+02 | 3.16E-02 | 3.91E+03 | 9.61E+00 | -1.46E+02 |
| ے ج | Emission/Discharge to the environment to Water | | CO2 | kg | 2.42E+01 | 5.38E+00 | 1.27E+00 | 4.28E+01 | 1.61E+00 | -4.38E+00 |
| _ | | ē | Sox | kg | 1.55E-02 | 4.10E-03 | 1.07E-03 | 2.99E-02 | 8.67E-04 | -1.59E-03 |
| | .€ | hei | Nox | kg | 3.07E-02 | 3.25E-03 | 1.12E-02 | 4.16E-02 | 2.23E-03 | -6.58E-03 |
| | -Cua | lds | N2O | kg | 2.12E-03 | 5.88E-05 | 1.40E-04 | 8.92E-04 | 3.29E-06 | -4.12E-04 |
| | e e | ရ | CH4 | kg | 2.73E-04 | 1.25E-04 | 7.57E-09 | 8.19E-04 | 2.07E-06 | -1.17E-05 |
| | o # | to Atmosphere | CO NMVOC | kg | 2.88E-03 | 7.95E-04 | 3.95E-03 | 9.73E-03 | 4.97E-04 | -4.24E-04 |
| | e t | Q. | | kg | 5.34E-04 | 2.45E-04 | 1.49E-08 | 1.60E-03 | 4.06E-06 | -2.30E-05 |
| | arg | | CxHy Dust | kg kg | 1.01E-03 3.05E-03 | 1.28E-05 | 2.62E-04 9.53E-04 | 5.13E-04 2.60E-03 | 1.56E-05 | -2.03E-04 |
| | l Sch | | BOD | kg | | 1.76E-04 | 9.55⊏-04 | 2.00⊑-03 | 1.37E-04 | -6.14E-04 |
| | Ö | e e e | | kg kg | - | - | - | - | - | - |
| | on/ | system to Water to Water domain | N total | kg | - | - | - | - | - | - |
| | SSi | N o | P total | kg | | - | - | - | | - |
| | Ë | 5 6 6 | SS | kg | | - | - | - | - | - |
| | Ž E | | Unspecified Solid Waste | kg | 2.66E-01 | 2.91E-06 | 0 | 1.09E+00 | 1.14E+00 | 1.08E+00 |
| | Impact by | to Soil | Slag | kg | 5.04E-01 | 0 | 0 | 2.22E-01 | 0 | -2.07E-01 |
| | pac | system | Sludge | kg | 2.51E-04 | 0 | 0 | 0 | 0 | -9.07E-05 |
| | 프 | o you on | Low level radio-active waste | kg | 7.15E-05 | 3.27E-05 | 1.98E-09 | 2.14E-04 | 5.41E-07 | -3.06E-06 |
| it. | roe | Exhaustible | | kg | 8.48E+00 | 2.03E+00 | 3.98E-01 | 1.57E+01 | 5.03E-02 | -1.43E+00 |
| ner | Resou | resources | , , , , | | | 0 | 0 | | 0 | |
| Impact assessment | Š č | resources | Mineral resources (Iron ore equivalent) | kg | 4.44E+01 2.48E+01 | 5.40E+00 | 1.30E+00 | 9.20E+00 | 1.61E+00 | -8.43E+00 |
| SSE | , a # | to | Global Warming (CO2 equivalent) Acidification (SO2 equivalent) | kg kg | 3.70E-02 | 6.38E-03 | 1.30E+00 8.90E-03 | 4.31E+01 5.91E-02 | 1.61E+00 2.43E-03 | -4.49E+00 -6.19E-03 |
| t a | issio. | Atmosphere | ` ' | ĸy | 3.70E-02 | 0.30E-U3 | 0.90E-03 | 5.91E-02 | Z.43E-U3 | -0.19E-03 |
| Jac | / Em. ische nviro | Autospileit | Photochemical Oxidant | - ka | 1.87E-03 | 1.81E-04 | 4.95E-04 | 1.95E-03 | 6.47E-05 | -3.41E-04 |
| Ē | by E Dis | to Water system | | kg - | 1.07 E-03 | 1.01E-04 | 4.950-04 | 1.80E-03 | 0.47E-03 | -3.41E-04 |
| | | to trutor system | | | | | | | - | - |

[Notes for readers: EcoLeaf common rules]

I. Stage related

- A. "Production" stage is intended for two sub-stages listed below
- (1) "Raw material" production: consists of mining, transportation and raw material production.
- $\begin{tabular}{ll} \begin{tabular}{ll} \beg$
- B. "Distribution" stage is intended for transportation of produced product. Transportation of consumables and maintenance goods (e.g. replacement parts) for use of the product are included into "Use" stage.
- C. "Use" stage is intended for use of the product (active mode, standby mode, etc.) and production, transportation to disposal/recycle of consumables/maintenance goods (e.g. replacement parts).
- D. "Disposition/Recycle" stage is intended for environmental impacts by product disposition/recycle, and deduction by recycling (e.g. impact reduction of raw material production).
- E. "Recycle Effect" illustrates an indirect environmental influences to other products/services by use of reclaimed materials/parts. and/or by supply of used products to other businesses for material reclaim/parts reuse.

 Case 1: Use of reclaimed materials/parts: Sum of increase of environmental impact by collection activities of used materials/parts, and decrease by volume reduction of used materials/parts.

 Case 2: Supply of used products to other businesses for material reclaim/parts reuse: Sum of increase of environmental impact by materials/parts reclaiming process, and decrease by volume reduction of new materials/parts production.

II. Inventory analyses

- A. Data of mineral ore on "Exhaustible resources" are presented in weight of pure ingredients (e.g. iron, aluminum) in the ore.
- B. Data on energy resources are presented based on origin in calorific value. e.g. Data on uranium ore presents weight of uranium concentrate, which is available for use as an atomic fuel.
- C. Data of discharge to water system are in actual figure (not calculated using unit function in inventory analyses).

III Impact analyses

Result of the "Impact analyses" is found in converting results of inventory analyses into total amount of a reference material (e.g. CO₂ in case of "Global Warming").

- A. Impact "by resource consumption" represents magnitude of impacts to resource depletion.
- B. Impact "by emission/discharge to environment" represents magnitude of impacts to Atmosphere, Water and Soil system.

IV Data entry format

- A. Exponential notation, after the decimal point to two, should be used.
- B. Indicate "0" instead exponential notation, if the result of calculation or estimation is considered as "zero" or negligible in comparison to related results.
- C. Indicate " " if calculation nor estimation can not be done, in order to differentiate to indicate "zero".

(BGD for material production are for production from mineral ore. Those data do not include reclaiming processes like recovery from scrap.)

[Notes for readers: Target product specific]

- 1. Regarding the "Raw material" production, the environmental burdens of resource mining, transportation and raw material production for the main unit, accessories and packaging materials are calculated using the EcoLeaf basic unit.
- 2. In "Product" production, for parts processing, the environmental burden is calculated using the EcoLeaf basic unit and production site data.

For Parts/material C assembled at other than the main unit assembly site, the burden is calculated using the EcoLeaf basic unit (Assembly).

3. The "Distribution" stage basic conditions and basic unit are in accordance with the provisions of PCR.

The burdens are calculated with 500km for the total domestic transportation distance.

For transportation from China, the burdens of transporting by truck and sea are entered into the calculation.

4. The "Use" stage basic conditions and basic unit are in accordance with the provisions of PCR.

The burdens of electricity consumption, consumables production and transportation are calculated with the total scanning number of 4,800,000 sheets in the customer use period of 5 years. The electricity consumption during power-off is entered into the calculation, presuming that the products remain plugged even if not in use.

Based on the recycling scenario established at our company, the recycling burden is calculated with the 40 % part recovery rate for the consumables that the customer uses.

For the 60% non-recovery rate, the burden is calculated by using the General Waste Disposal Scenario.

For the manual and packaging box for consumables, the recycling burden is calculated by setting up the Open Recycling Scenario.

5. At the "Disposition/Recycle" stage, in accordance with the provisions of PCR, the recycling scenario is established at our company.

The recycling burden is calculated with the 40% product recovery rate from the customer. For the 60% non-recovery rate, the burden is calculated by using the General Waste Disposal Scenario. For manuals, packaging boxes and cushioning materials, the recycling burden is calculated by setting up the Open Recycling Scenario.

6. Regarding "Recycle Effect", the burdens accompanying the production of raw materials using the materials recycled from the parts are deducted.

Deduction regarding recycled materials used in products, accessories and packaging materials is not entered into the calculation.

Product data sheet

Input data and parameters for LCA

| | (input data dila parameters for EO/t) |
|--------------------------|---------------------------------------|
| Document control no. | F-03s-02 |
| Product vendor | PFU LIMITED |
| EcoLEaf registration no. | CA-16-028 |



| PCR name | Flat-bed / Sheet-fed scanner (PCR-ID: CA-01) | Product type | pe fi-7030 | | | | |
|-----------------------|--|---------------------|------------|--------------|------|-------------------|------|
| LCA/LCIA in units of: | 1 unit | Product weight (kg) | 2.79 | Package (kg) | 1.24 | Weight total (kg) | 4.03 |

1. Product information (per unit): parts etc. by material and by process/assembly method

| | Bre | eakdown of p | rimary materials | | Math breakdown of parts, which | ch need to apply | Processing / Assembly Base L | Inits (Parts B, C) |
|----------|-----------------------------|--------------|------------------|-------------|---|------------------|------------------------------|--------------------|
| | Material name | Weight (kg) | Material name | Weight (kg) | Process name | Weight (kg) | Process name | Weight (kg) |
| | Ordinary steel | 7.07E-01 | Rubber | 3.11E-02 | Press molding:Iron (kg) | 7.52E-01 | Parts assembly (kg) | 5.80E-01 |
| | Stainless steel | 3.68E-02 | Paper | 6.91E-01 | Press molding: Nonferrous metal (kg) | 2.55E-01 | | |
| ょ | Other metals | 2.04E-01 | | | Injection molding (kg) | 1.75E+00 | | |
| Product | Aluminum | 1.11E-04 | | | | | | |
| <u> </u> | Glass | 5.32E-02 | | | | | | |
| | Semiconductor circuit board | 3.12E-01 | | | | | | |
| | Medium-sized motor | 2.84E-01 | | | | | | |
| | Thermoplastic resin | 1.71E+00 | | | | | | |
| | Subtotal | 3.31E+00 | Subtotal | 7.22E-01 | | | | |
| | | Total | | 4.03E+00 | Subtotal | 2.76E+00 | Subtotal | 5.80E-01 |

Note Regarding the "Raw material" production, the environmental burdens of resource mining, transportation and raw material production for the main unit, accessories and packaging materials are calculated using the EcoLeaf basic unit.

2. Production site information (per unit): Consumption and discharge/emission for production/processing/assembly within the site.

 ${\rm SOx}$ and ${\rm NOx}$ should be indicated in ${\rm SO_2},\,{\rm NO_2}$ equivalent.

| on | Classification | Energy | Material | | | |
|------------------------|----------------|------------------------|-----------------------|--|--|--|
| Consumption | Distribution | Electricity (kWh) | Industrial water (kg) | | | |
| ISI | Quantity | 9.49E+00 | 7.73E-02 | | | |
| ပိ | Note | | | | | |
| > m | Classification | Water system | | | | |
| Emission/ Discharge | Distribution | Sewage processing (kg) | | | | |
| mis | Quantity | 7.73E-02 | | | | |
| шЬ | Note | | | | | |

Note The burdens of mounting parts on printed circuit boards, air conditioners, electric lights, electric tools and test equipment at the product production site are included.

3. Distribution stage information (per unit): means, distance, loading ratio, consumptions and emissions/discharges.

| | Means of transportatio | Diesel truck: 10 ton (kg·km) | Freight by ship (kg·km) | Freight by ship (kg·km) | Freight by ship (kg·km) | Freight by ship (kg·km) |
|-------|------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-------------------------|----------------------------|----------------------------|----------------------------|
| | Conditions | Mass(kg) | | Loading Ratio(%w) | | Mass(kg) | Distance (km) | Loading Ratio(%w) | Load(kg·km) |
| 8 | Quantity | 4.03E+00 | 9.00E+01 | 5.27E+01 | 6.88E+02 | 4.03E+00 | 3.00E+03 | 1.00E+02 | 1.21E+04 |
| ution | Note | | | | | | | | |
| ţ | Means of | Diesel truck: | Diesel truck: | Diesel truck: | Diesel truck: | Diesel truck: | Diesel truck: | Diesel truck: | Diesel truck: |
| Dis | transportatio | 10 ton (kg·km) | 10 ton (kg·km) | 10 ton (kg·km) | 10 ton (kg·km) | 4 ton (kg·km) | 4 ton (kg·km) | 4 ton (kg·km) | 4 ton (kg·km) |
| | Conditions | Mass(kg) | Distance (km) | Loading Ratio(%w) | Load(kg·km) | Mass(kg) | Distance (km) | Loading Ratio(%w) | Load(kg·km) |
| | Quantity | 4.03E+00 | 4.25E+01 | 5.27E+01 | 3.25E+02 | 4.03E+00 | 5.00E+02 | 3.76E+01 | 5.36E+03 |
| | Note | | | | | | | | |

Note The "Distribution" stage basic conditions and basic unit are in accordance with the provisions of PCR.

The burdens are calculated with 500km for the total domestic transportation distance.

For transportation from China, the burdens of transporting by truck and sea are entered into the calculation.

4. Use stage (per unit): use condition (mode, term) including active mode, standby mode and maintenance.

4.1 Product and accessories subject to this analysis

| | Classification | Consumption | Consumption | Consumption | Consumption | Consumption | Consumption | Consumption | Consumption |
|---------|----------------|--------------------------------|----------------------------|--------------------------|------------------------------------|---------------------------|---------------------------------|--------------------------------|--------------------------------|
| | Distribution | Electroplated steel Plate (kg) | Stainless steel plate (kg) | POM (polyacetal) (kg) | Nitrile-butadiene rubber(NBR) (kg) | Corrugated cardboard (kg) | Cardboard (kg) | Paper (Western style) (kg) | Press molding: Iron (kg) |
| | Quantity | 6.67E-01 | 6.28E-02 | 8.49E-01 | 5.29E-01 | 1.84E-01 | 1.33E+00 | 4.60E-02 | 7.74E-01 |
| | Note | | | | | | | | |
| | Classification | Consumption | Consumption | Consumption | Condition | Condition | Condition | Condition | Condition |
| Product | Distribution | Injection molding (kg) | Parts assembly (kg) | Electricity (kWh) | Diesel truck: 10 ton (kg·km) | Freight by ship (kg·km) | Diesel truck: 10 ton (kg·km) | Diesel truck: 4 ton (kg·km) | Diesel truck: 2 ton (kg·km) |
| 윤 | Quantity | 1.33E+00 | 1.34E+00 | 7.48E+01 | 6.27E+02 | 1.10E+04 | 2.96E+02 | 4.88E+03 | 1.45E+02 |
| | Note | | | | | | | | |
| | Classification | Condition | | | | | | | |
| | Distribution | Diesel truck: 2 ton (kg·km) | | | | | | | |
| | Quantity | 1.09E+02 | | _ | | _ | | | _ |
| | Note | | | | | | | | |

Note The "Use" stage basic conditions and basic unit are in accordance with the provisions of PCR.

The burdens of electricity consumption, consumables production and transportation are calculated with the total scanning number of 4,800,000 sheets in the customer use period of 5 years. The electricity consumption during power-off is entered into the calculation, presuming that the products remain plugged even if not in use.

4.2 Disposition/Recycle information on consumables and replacement parts

| | Classification | Process | Process | Process | Consumption | Consumption | Process | Deduction | Process |
|--------|----------------|-----------------------|---------------------------------------|---|---|----------------------------|--|------------------------------|---|
| | Distribution | Shredding (kg) | Landfill: General waste (kg) | Incineration to landfill (as ash) (kg) | Electricity (kWh) | Diesel oil as fuel (kg) | Recycle: to cold-rolled steel (kg) | Cold-Rolled steel plate (kg) | Recycle: to Thermoplastic pellet (kg) |
| es | Quantity | 2.83E+00 | 4.38E-01 | 1.13E+00 | 2.96E-01 | 2.61E-03 | 2.92E-01 | 2.92E-01 | 3.07E-01 |
| umablo | Note | | | | | | | | |
| l se | Classification | Deduction | Process | Process | Process | Deduction | | | |
| Const | Distribution | POM (polyacetal) (kg) | Landfill: Industrial waste (kg) | Sorting: Nonferrous metal (by eddy current with wind force) (kg) | Recycle: to corrugated cardboard (kg) | Corrugated cardboard (kg) | | | |
| | Quantity | 3.07E-01 | 7.00E-01 | 1.26E+00 | 8.08E-01 | 8.08E-01 | | _ | |
| | Note | | | | | | | | |

Note Based on the recycling scenario established at our company, the recycling burden is calculated with the 40 % part recovery rate for the consumables that the customer uses. For the 60% non-recovery rate, the burden is calculated by using the General Waste Disposal Scenario.

For the manual and packaging box for consumables, the recycling burden is calculated by setting up the Open Recycling Scenario.

5. Disposition/Recycle stage information (per product): process method and scenarios

| | Classification | Process | Process | Process | Consumption | Consumption | Process | Deduction | Process |
|----------|----------------|---|---|--|------------------------------------|--------------------------------|---|---|-------------------------------------|
| | Distribution | Shredding (kg) | Landfill: General waste (kg) | Incineration to landfill (as ash) (kg) | Electricity (kWh) | Diesel oil as fuel (kg) | Recycle: to cold-rolled steel (kg) | Cold-Rolled steel plate (kg) | Recycle: to copper plate (kg) |
| | Quantity | 2.75E+00 | 9.58E-01 | 1.15E+00 | 1.79E-01 | 1.58E-03 | 2.97E-01 | 2.97E-01 | 8.16E-02 |
| | Note | | | | | | | | |
| | Classification | Deduction | Process | Deduction | Process | Deduction | Process | Process | Deduction |
| Scenario | Distribution | Copper plate (kg) | Recycle: to Aluminum plate (kg) | Aluminum plate (kg) | Recycle: to Glass (kg) | Glass (kg) | Sorting: Nonferrous metal (by eddy current with wind force) (kg) | Recycle: to corrugated cardboard (kg) | Corrugated cardboard (kg) |
| တိ | Quantity | 8.16E-02 | 4.00E-05 | 4.00E-05 | 2.13E-02 | 2.13E-02 | 5.58E-01 | 3.57E-01 | 3.57E-01 |
| | Note | | | | | | | | |
| | Classification | Process | Process | Deduction | Process | Condition | Condition | Condition | |
| | Distribution | Sorting: Plastics (by relative density difference in water) (kg) | Recycle: to Thermoplastic pellet (kg) | Polystyrene (kg) | Landfill: Industrial waste (kg) | Diesel truck: 2 ton (kg·km) | Diesel truck: 2 ton (kg·km) | Diesel truck: 2 ton (kg·km) | |
| | Quantity | 8.44E-02 | 6.22E-01 | 6.22E-01 | 5.44E-01 | 2.21E+02 | 4.81E+01 | 7.28E+00 | |
| | Note | | | | | | | | |

Note At the "Disposition/Recycle" stage, in accordance with the provisions of PCR, the recycling scenario is established at our company.

The recycling burden is calculated with the 40% product recovery rate from the customer.

For the 60% non-recovery rate, the burden is calculated by using the General Waste Disposal Scenario.

For manuals, packaging boxes and cushioning materials, the recycling burden is calculated by setting up the Open Recycling Scenario.

6. Others

Regarding "Recycle Effect", the burdens accompanying the production of raw materials using the materials recycled from the parts are deducted. Deduction regarding recycled materials used in products, accessories and packaging materials is not entered into the calculation.