

- 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. This declaration was produced using Product Category Rule intended for a product model sold in the Japanese market and using the qualitative and quantitative data collected in Japan.

## [Supplemental environmental information]

## Certified to the international ENERGY STAR Program V2.0, EU RoHS

## ·Manufactured at ISO14001 certified factories

PCR review was conducted by : PCR Deliberation Committee, January 01,2008, 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: Hiromi Horikawa

Programme operator: Sustainable Management Promotion Organization ecoleaf@sumpo.or.jp

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

The Ecoleaf is an environmental labeling program that belongs to the ISO-TypeIII category.

# Product Environmental Information Data Sheet (PEIDS)



Unit Function DB version

Characterization Factor DB version

| Document control no.     | F-02Bs-02               |
|--------------------------|-------------------------|
| Product vendor           | TOSHIBA TEC CORPORATION |
| EcoLeaf registration no. | AD-18-E1109-A           |

| PCR name | EP and IJ print | Product type        | TOSHIBA MFP e-STUDIO7516AC(T-LCF) |              |      |                   |       |  |
|----------|-----------------|---------------------|-----------------------------------|--------------|------|-------------------|-------|--|
| PCR code | AD-04           | Product weight (kg) | 212.7                             | Package (kg) | 41.2 | Weight total (kg) | 253.9 |  |

|                    | _   |  |                       | Life Cycle Stage                               |          | Prod                 | uction   |              |                      |             | Recycle                |
|--------------------|---|--|-----------------------|--|----------|----------------------|----------|--------------|----------------------|-------------|------------------------|
| In/Ou              | ut iter                                   | ns   |                       |  | Unit     | Raw material         | Product  | Distribution | Use                  | Disposition | Effect                 |
|                    |   | F  | nerav (               | Consumption                                    | MJ       | 1.62E+04             | 3.53E+03 | 5.23E+03     | 7.30E+04             | 3.01E+02    | -4.25E+03              |
|                    |   | -  | nergy c               | onsumption                                     | Mcal     | 3.86E+03             | 8.43E+02 | 1.25E+03     | 1.74E+04             | 7.20E+01    | -1.02E+03              |
|                    |   |  | es                    | Coal   | kg       | 1.62E+02             | 1.99E+01 | 1.22E-02     | 3.01E+02             | 9.66E-01    | -6.11E+01              |
|                    |   |  | i Gun                 | Crude oil (for fuel)                           | kg       | 1.40E+02             | 3.51E+01 | 1.14E+02     | 6.17E+02             | 4.79E+00    | -2.33E+01              |
|                    |   |  | Energy<br>resources   | LNG  | kg       | 2.86E+01             | 1.21E+01 | 1.76E+00     | 1.81E+02             | 5.44E-01    | -3.77E+00              |
|                    |   |  | 2                     | Uranium content of an ore                      | kg       | 2.60E-03             | 1.35E-03 | 8.28E-07     | 1.71E-02             | 6.53E-05    | 2.19E-05               |
|                    |   |  |                       | Crude oil (for material)                       | kg       | 5.25E+01             | 0        | 0            | 2.41E+02             | 0           | -2.38E+01              |
|                    | on  | es   |                       | Iron content of an ore                         | kg       | 1.39E+02             | 0        | 0            | 3.38E+01             | 0           | -6.18E+01              |
|                    | pti                                       | ILC  |                       | Cu content of an ore<br>Al content of an ore   | kg       | 3.99E+00             | 0        | 0            | 5.77E-02             | 0           | -4.96E-01              |
|                    | μn  | sol  |                       | Ni content of an ore                           | kg<br>kg | 4.40E+00<br>5.84E-01 | 0        | 0            | 8.81E+00<br>8.27E-03 | 0           | -4.97E+00<br>-1.26E-03 |
|                    | su  | res  | ses                   | C content of an ore                            | kg       | 8.35E-01             | 0        | 0            | 2.28E-02             | 0           | -2.29E-02              |
|                    | ပိ  | le   | nro                   | Mn content of an ore                           | kg       | 7.85E-01             | 0        | 0            | 1.80E-02             | 0           | -2.29E-02<br>-4.79E-02 |
|                    | e   | stib   | SO                    | Pb content of an ore                           | kg       | 1.80E-01             | 0        | 0            | 4.68E-03             | 0           | -4.03E-02              |
|                    | nr  | aus  | Exhaustible resources | Sn content of an ore                           | kg       | 0                    | 0        | 0            | 0                    | 0           | 0                      |
|                    | so  | xhŝ  |                       | Zn content of an ore                           | kg       | 1.77E+00             | 0        | 0            | 4.61E-02             | 0           | -3.96E-01              |
|                    | Re  | Ш  | ine                   | Au content of an ore                           | kg       | 0                    | Ö        | 0            | 0                    | 0           | 0                      |
|                    | ą   |  | Σ                     | Ag content of an ore                           | kg       | 0                    | 0        | 0            | 0                    | 0           | 0                      |
|                    | Impact by Resource Consumption            |  |                       | Silica Sand                                    | kg       | 6.22E+00             | Ő        | Ő            | 5.17E-01             | Ő           | -1.49E+00              |
|                    | pa  |  |                       | Halite   | kġ       | 2.55E+01             | 3.68E-03 | 0            | 5.54E+00             | 9.85E-02    | -7.24E+00              |
| sec                | <u></u>                                   |  |                       | Limestone                                      | kġ       | 2.88E+01             | 0        | 0            | 1.52E+01             | 2.15E+00    | -1.07E+01              |
| aiys               |   |  |                       | Natural soda ash                               | kğ       | 4.64E-01             | 0        | 0            | 1.15E-02             | 0           | -1.10E-01              |
| Inventory anaiyses |   | Donourohlo   | resources             | Wood   | kg       | 6.73E+01             | 0        | 0            | 1.70E+02             | 0           | 0                      |
| /ento              |   | Dono   | reso                  | Water  | kg       | 6.62E+04             | 1.57E+04 | 9.16E+00     | 3.05E+05             | 8.08E+02    | -9.52E+03              |
| Ē                  |   |  |                       | CO <sub>2</sub>                                | kg       | 9.37E+02             | 2.00E+02 | 3.70E+02     | 3.34E+03             | 1.29E+02    | -2.42E+02              |
|                    |   | a)   |                       | Sox  | kg       | 6.38E-01             | 1.40E-01 | 3.12E-01     | 2.48E+00             | 7.92E-02    | -2.52E-01              |
|                    |   |  | ere                   | Nox  | kg       | 1.06E+00             | 2.44E-01 | 3.25E+00     | 5.69E+00             | 2.99E-01    | -3.32E-01              |
|                    | ы<br>Ц                                    |  | hd                    | N <sub>2</sub> O                               | kg       | 7.27E-02             | 1.47E-02 | 4.14E-02     | 2.01E-01             | 4.41E-04    | -2.33E-02              |
|                    | l e                                       |  | SOL                   | CH4  | kg       | 6.89E-03             | 3.60E-03 | 2.21E-06     | 4.55E-02             | 1.75E-04    | 1.49E-04               |
|                    | /uc                                       |  | t t                   | CO   | kg       | 1.45E-01             | 5.23E-02 | 1.14E+00     | 1.37E+00             | 8.38E-02    | -6.16E-02              |
|                    | SSIC                                      |  | to Atmosphere         | NMVOC  | kg       | 1.35E-02             | 7.06E-03 | 4.33E-06     | 8.90E-02             | 3.43E-04    | 2.90E-04               |
|                    | en is                                     | to Water<br>system<br>to Water<br>to Water<br>domain |                       | CxHy   | kg       | 3.56E-02             | 6.23E-03 | 7.60E-02     | 1.25E-01             | 3.47E-03    | -1.16E-02              |
|                    | ji je                                     | 2  |                       | Dust   | kg       | 1.25E-01             | 1.98E-02 | 2.75E-01     | 4.56E-01             | 1.83E-02    | -4.91E-02              |
|                    | o t                                       |  |                       | BOD  | kğ       | -                    | -        | -            | -                    | -           | -                      |
|                    | act<br>e t                                | m ter  | ain                   | COD  | kğ       | -                    | -        | -            | -                    | -           | -                      |
|                    | mpact by Emission<br>narge to the environ | o Wate<br>system                                     | Va<br>me              | N total  | kğ       | -                    | -        | -            | -                    | -           | -                      |
|                    | n<br>Sho                                  | sy:  | to Water<br>domain    | P total  | kg       | -                    | -        | -            | -                    | -           | -                      |
|                    | Disc                                      | -  | -                     | SS   | kg       | -                    | -        | -            | -                    | -           | -                      |
|                    |   |  | = E                   | Unspecified Solid Waste                        | kg       | 7.49E+00             | 2.35E-02 | 0            | 5.81E+01             | 1.11E+02    | -2.27E+00              |
|                    |   | 0  | system                | Slag   | kg       | 4.54E+01             | 0        | 0            | 1.04E+01             | 0           | -1.91E+01              |
|                    |   | ¢  | sys                   | Sludge   | kg       | 7.76E+00             | 0        | 0            | 1.89E+01             | 0           | -1.07E+01              |
|                    |   |  |                       | Low level radio-active waste                   | kq       | 1.82E-03             | 9.42E-04 | 5.79E-07     | 1.19E-02             | 4.57E-05    | 1.52E-05               |
|                    | by Resource<br>Consumption                | Exhaustible  | resources             | Energy resources<br>(crude oil equivalent)     | kg       | 3.00E+02             | 7.35E+01 | 1.16E+02     | 1.17E+03             | 6.59E+00    | -6.69E+01              |
| ent                | by Re<br>Consu                            | Exhai  | reso                  | Mineral resources<br>(Iron ore equivalent)     | kg       | 1.52E+03             | 0        | 0            | 2.14E+02             | 0           | -2.39E+02              |
| Impact<br>sessm    | by Emission / by<br>Discharge to Co       |  | nere                  | Global Warming<br>(CO <sub>2</sub> equivalent) | kg       | 9.56E+02             | 2.04E+02 | 3.82E+02     | 3.39E+03             | 1.29E+02    | -2.49E+02              |
| ast                | by Emission /<br>Discharge to             | t<br>t   | Atmosphere            | Acidification<br>(SO <sub>2</sub> equivalent)  | kg       | 1.38E+00             | 3.10E-01 | 2.59E+00     | 6.46E+00             | 2.89E-01    | -4.84E-01              |
|                    | Jis Jis                                   |  | At                    | -  | -        | -                    | -        | -            | -                    | -           | -                      |
|                    | ت م                                       |  |                       | -  | -        | -                    | -        | -            | -                    | -           | -                      |
|                    |   |  | -                     | -  | -        | -                    | -        | -            | -                    | -           | -                      |

[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.

(2) "Product" production: consists of the parts processing, assembly and installation.

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.

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

B. Indicate "O" 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".

Form 3(F-03s-02)

## **Product data sheet**

(Input data and parameters for LCA)

| _                        |                         |
|--------------------------|-------------------------|
| Document control no.     | F-03s-02                |
| Product vendor           | TOSHIBA TEC CORPORATION |
| EcoLEaf registration no. | AD-18-E1109-A           |



| i n  |         |                   | _                              | D and I I and |                            | Dusdust      |   |                        | TOO               |               |  |                          |                  |
|------|---------|-------------------|--------------------------------|---------------|----------------------------|--------------|---|------------------------|-------------------|---------------|--|--------------------------|------------------|
|      |         | PCR name          | E                              | P and IJ prir | nter (PCR-ID:AD-04)        | Product t    | ype                                     |                        | 105               |               | e-510L   | DIO7516AC(T-LCF)         |                  |
|      | LCA/    | LCIA in units of: |                                |               | 1                          | Product weig | ht (kg) 212.7 Packa                     |                        | Package (kg) 41.2 |               | Weight total (kg)  | 253.9                    |                  |
| 1. I | Produ   | ct information (p | per unit): p                   | arts etc. by  | material and by process/as | sembly met   | thod                                    |                        |                   |               |  |                          |                  |
|      |         |                   | Breakdown of primary materials |               |                            |              |   |                        |                   | ch need to ap | oply Proces  | ssing / Assembly Base Un | its (Parts B, C) |
|      |         | Material name     |                                | Weight (kg)   | Material name              | Weight (kg)  | F                                       | Process name           |                   | Weight (      | <g)< td=""><td>Process name</td><td>Weight (kg)</td></g)<> | Process name             | Weight (kg)      |
|      |         | Ordinary steel    |                                | 1.24E+02      | Paper                      | 2.36E+01     | Press                                   | ess molding:liron (kg) |                   | 1.26E+0       | )2 Pa  | irts assembly (kg)       | 1.44E+00         |
|      |         | Stainless steel   |                                | 3.68E+00      | Wood                       | 1.71E+01     | Press molding:<br>Nonferrous metal (kg) |                        | 4.81E+0           | )1            |  |                          |                  |
|      | rct     | Other metals      |                                | 4.58E+00      | Semiconductor substrate    | 6.08E+00     | Injec                                   | Injection molding (kg) |                   | 5.91E+0       | )1   |                          |                  |
|      | Product | Aluminu           | m                              | 3.42E+00      | Medium-sized motor         | 8.94E+00     | Gla                                     | ass molding            | ı (kg)            | 3.73E+0       | 00   |                          |                  |
|      | P       | Glass             |                                | 3.73E+00      |                            |              |   |                        |                   |               |  |                          |                  |
|      |         | Thermoplasti      | ic resin                       | 5.62E+01      |                            |              |   |                        |                   |               |  |                          |                  |
|      |         | Thermosettin      | g resin                        | 1.07E+00      |                            |              |   |                        |                   |               |  |                          |                  |
|      |         | Rubber            |                                | 1.84E+00      |                            |              |   |                        |                   |               |  |                          |                  |
|      |         | Subtotal          |                                | 1.98E+02      | Subtotal                   | 5.57E+01     |   |                        |                   |               |  |                          |                  |
|      |         |                   |                                | Total         |                            | 2.54E+02     |   | Subtotal               |                   | 2.37E+0       | )2   | Subtotal                 | 1.44E+00         |

Note

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

SOx and NOx should be indicated in SO<sub>2</sub>, NO<sub>2</sub> equivalent.

|             | Classification | Energy                          | Energy                     | Energy                         | Energy                     | Material                 | Material                        | Energy                   | Energy                  |
|-------------|----------------|---------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------|---------------------------------|--------------------------|-------------------------|
|             | Distribution   | Electricity (kWh)               | Diesel oil as fuel<br>(kg) | Heavy oil as fuel<br>(kg)      | Furnace LPG (kg)           | Industrial water<br>(kg) | Diesel truck:<br>10 ton (kg·km) | Gasoline as fuel<br>(kg) | Urban gas<br>(13A) (m3) |
| ion         | Quantity       | 6.07E+01                        | 8.64E-03                   | 7.40E-02                       | 3.31E-01                   | 6.14E+02                 | 5.29E+04                        | 8.00E-05                 | 4.46E-01                |
| Consumption | Note           |                                 |                            |                                |                            |                          |                                 |                          |                         |
| Insu        | Classification | Energy                          | Material                   | Material                       | Material                   |                          |                                 |                          |                         |
| Col         | Distribution   | Furnace urban<br>gas (13A) (m3) | Clean water (kg)           | Diesel truck:<br>4 ton (kg·km) | Freight by ship<br>(kg∙km) |                          |                                 |                          |                         |
|             | Quantity       | 2.00E+00                        | 2.13E+01                   | 1.26E+03                       | 6.68E+05                   |                          |                                 |                          |                         |
|             | Note           |                                 |                            |                                |                            |                          |                                 |                          |                         |
| Irge        | Classification | Water system                    |                            |                                |                            |                          |                                 |                          |                         |
| //Discharge | Distribution   | Sewage<br>processing (kg)       |                            |                                |                            |                          |                                 |                          |                         |
| Emission,   | Quantity       | 6.34E+02                        |                            |                                |                            |                          |                                 |                          |                         |
| Emis        | Note           |                                 |                            |                                |                            |                          |                                 |                          |                         |

Note : The impact of transportation from China to Singapore is also included.

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

|            | Means of<br>transportation | Diesel truck:<br>10 ton (kg·km) | Freight by ship<br>(kg∙km) | Freight by ship<br>(kg∙km) | Freight by ship<br>(kg∙km) | Freight by ship<br>(kg·km) |
|------------|----------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
|            | Conditions                 | Mass(kg)                        | Distance (km)                   | Loading Ratio(%w)               | Load(kg·km)                     | Mass(kg)                   | Distance (km)              | Loading Ratio(%w)          | Load(kg·km)                |
| ы          | Quantity                   | 2.54E+02                        | 1.40E+01                        | 3.56E+01                        | 9.99E+03                        | 2.54E+02                   | 1.42E+04                   | 1.00E+02                   | 3.59E+06                   |
| outi       | Note                       |                                 |                                 |                                 |                                 |                            |                            |                            |                            |
| Distributi | Means of<br>transportation | Diesel truck:<br>10 ton (kg·km) | Diesel truck:<br>10 ton (kg·km) | Diesel truck:<br>10 ton (kg⋅km) | Diesel truck:<br>10 ton (kg⋅km) |                            |                            |                            |                            |
|            | Conditions                 | Mass(kg)                        | Distance (km)                   | Loading Ratio(%w)               | Load(kg·km)                     |                            |                            |                            |                            |
|            | Quantity                   | 2.54E+02                        | 3.30E+03                        | 3.56E+01                        | 2.35E+06                        |                            |                            |                            |                            |
|            | Note                       |                                 |                                 |                                 |                                 |                            |                            |                            |                            |

Note : The main body product is assumed to be transported from Singapore to USA .

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   | Cold-Rolled<br>steel plate (kg)    | Electroplated<br>steel Plate (kg) | Stainless<br>steel plate (kg)  | Aluminum plate<br>(kg)                     | Glass (kg)  | High density<br>polyethylene (kg)         | Low density<br>polyethylene (kg)              | Polystyrene (kg)           |
|         | Quantity       | 2.93E+01                           | 3.25E+00                          | 4.80E-02                       | 8.33E+00                                   | 1.40E-02  | 3.49E+01                                  | 1.59E-01                                      | 9.66E+01                   |
|         | Note           |                                    |                                   |                                |  |   |   |   |                            |
|         | Classification | Consumption                        | Consumption                       | Consumption                    | Consumption                                | Consumption   | Consumption                               | Consumption                                   | Consumption                |
|         | Distribution   | Polycarbonate-<br>ABS (70/30) (kg) | POM<br>(polyacetal) (kg)          | PA66<br>(Polyamide 66)<br>(kg) | PET (kg)                                   | Expandable soft<br>polyurethane<br>(for automobile)<br>(kg) | Nitrile-butadiene<br>rubber<br>(NBR) (kg) | Styrene-<br>butadiene<br>rubber<br>(SBR) (kg) | Corrugated cardboard (kg)  |
|         | Quantity       | 3.72E-01                           | 1.68E+00                          | 2.40E-01                       | 1.61E+02                                   | 1.99E+00  | 2.72E-01                                  | 1.92E-01                                      | 7.93E+01                   |
|         | Note           |                                    |                                   |                                |  |   |   |   |                            |
|         | Classification | Consumption                        | Consumption                       | Consumption                    | Consumption                                | Consumption   | Consumption                               | Process                                       | Process                    |
| Product | Distribution   | Paper<br>(Western style)<br>(kg)   | Assembled circuit board (kg)      | Press molding:<br>Iron (kg)    | Press molding:<br>Nonferrous metal<br>(kg) | Injection molding<br>(kg)                                   | Glass molding (kg)                        | Diesel truck:<br>4 ton (kg∙km)                | Freight by ship<br>(kg∙km) |
|         | Quantity       | 5.99E-01                           | 4.18E-01                          | 3.29E+00                       | 8.46E+01                                   | 1.37E+02  | 1.40E-02                                  | 1.43E+06                                      | 7.98E+05                   |
|         | Note           |                                    |                                   |                                |  |   |   |   |                            |
|         | Classification | Consumption                        | Consumption                       | Consumption                    | Consumption                                | Consumption   | Consumption                               | Consumption                                   | Consumption                |
|         | Distribution   | Electricity (kWh)                  | Heavy oil as fuel<br>(kg)         | Furnace LPG (kg)               | Gasoline<br>as fuel (kg)                   | Urban gas<br>(13A) (m3)                                     | Furnace urban<br>gas (13A) (m3)           | Industrial water<br>(kg)                      | Clean water (kg)           |
|         | Quantity       | 3.92E+03                           | 6.00E-03                          | 2.90E-02                       | 3.21E-01                                   | 1.95E+01  | 8.00E+00                                  | 2.94E+03                                      | 4.54E+03                   |
|         | Note           |                                    |                                   |                                |  |   |   |   |                            |
|         | Classification | Discharge                          |                                   |                                |  |   |   |   |                            |
|         | Distribution   | Sewage<br>processing (kg)          |                                   |                                |  |   |   |   |                            |
|         | Quantity       | 3.66E+03                           |                                   |                                |  |   |   |   |                            |
|         | Note           |                                    |                                   |                                |  |   |   |   |                            |

Note : The periodical replacement parts are assumed to be transported from China to USA.

### 4.2 Disposition/Recycle information on consumables and replacement parts

|         | Classification | Process                                  | Process                               | Process                                     | Process                                      | Process                            | Process   | Process  | Process  |
|---------|----------------|--|---------------------------------------|---|--|------------------------------------|---|--|--|
| es      | Distribution   | Shredding (kg)                           | Landfill:<br>Industrial waste<br>(kg) | Incineration:<br>Industrial waste<br>(kg)   | Incineration to<br>landfill<br>(as ash) (kg) | Landfill:<br>General waste<br>(kg) | Sorting:<br>Iron (by<br>magnetic force)<br>(kg) | Sorting:<br>Nonferrous<br>metal (by<br>eddy current with<br>wind force) (kg) | Sorting:<br>Plastics (by<br>relative density<br>difference<br>in water) (kg) |
| umables | Quantity       | 2.74E+02                                 | 4.12E+00                              | 8.10E+01                                    | 1.40E+02                                     | 2.46E+01                           | 7.77E+01  | 6.46E+01   | 6.13E+01   |
| sun     | Note           |  |                                       |   |  |                                    |   |  |  |
| Const   | Classification | Process                                  | Process                               | Process                                     | Deduction                                    | Deduction                          | Deduction                                       |  |  |
| J       | Distribution   | Recycle: to<br>cold-rolled steel<br>(kg) | Recycle: to<br>Aluminum plate<br>(kg) | Recycle: to<br>Thermoplastic<br>pellet (kg) | Cold-Rolled<br>steel plate (kg)              | Aluminum plate<br>(kg)             | Polystyrene (kg)                                |  |  |
|         | Quantity       | 1.24E+01                                 | 3.33E+00                              | 5.37E+01                                    | 1.12E+01                                     | 3.33E+00                           | 9.99E+00  |  |  |
|         | Note           |  |                                       |   |  |                                    |   |  |  |

Note : The values in the above table are calculated based on actual results in Japan.

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

|          | Classification   | Process                         | Process  | Process  | Process                                  | Process                                      | Process                               | Process                         | Process                                     |
|----------|--|---------------------------------|--|--|--|--|---------------------------------------|---------------------------------|---|
|          | Distribution   | Shredding (kg)                  | Landfill:<br>Industrial waste<br>(kg)  | Incineration:<br>Industrial waste<br>(kg)                                    | Incineration:<br>Biomass (paper)<br>(kg) | Incineration to<br>landfill<br>(as ash) (kg) | Landfill:<br>General waste<br>(kg)    | Diesel truck:<br>10 ton (kg·km) | Diesel truck:<br>4 ton (kg∙km)              |
|          | Quantity   | 2.46E+02                        | 1.22E+01   | 1.94E+01   | 6.82E+00                                 | 6.35E+01                                     | 8.89E+01                              | 1.20E+05                        | 1.47E+04                                    |
|          | Note   |                                 |  |  |  |  |                                       |                                 |   |
|          | Classification   | Process                         | Process  | Process  | Process                                  | Process                                      | Process                               | Process                         | Process                                     |
| Scenario | Distribution Sorting:<br>Iron (by<br>magnetic force)<br>(kg) |                                 | Sorting:<br>Nonferrous metal<br>(by eddy current<br>with wind force)<br>(kg) | Sorting:<br>Plastics (by<br>relative density<br>difference<br>in water) (kg) | Recycle: to<br>cold-rolled steel<br>(kg) | Recycle: to copper plate (kg)                | Recycle: to<br>Aluminum plate<br>(kg) | Recycle: to<br>Glass (kg)       | Recycle: to<br>Thermoplastic<br>pellet (kg) |
|          | Quantity   | 8.25E+01                        | 3.28E+01   | 2.96E+01   | 4.84E+01                                 | 1.65E+00                                     | 1.37E+00                              | 1.32E+00                        | 2.01E+01                                    |
|          | Note   |                                 |  |  |  |  |                                       |                                 |   |
|          | Classification   | Deduction                       | Deduction  | Deduction  | Deduction                                | Deduction                                    | Deduction                             | Deduction                       |   |
|          | Distribution   | Cold-Rolled<br>steel plate (kg) | Copper plate (kg)  | Aluminum plate<br>(kg)   | Polystyrene (kg)                         | Polycarbonate-<br>ABS (70/30) (kg)           | ABS (kg)                              | Glass (kg)                      |   |
|          | Quantity   | 4.84E+01                        | 1.65E+00   | 1.37E+00   | 3.73E+00                                 | 6.58E+00                                     | 5.00E+00                              | 1.32E+00                        |   |
|          | Note   |                                 |  |  |  |  |                                       |                                 |   |

Note : The values in the above table are calculated based on actual results in Japan.

## 6. Others

This Product is transported directly from China to USA too.