Product Environmental Aspects Declaration

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



No. CA-16-026 Date of publication Apr./13/2016





http://www.fujitsu.com/

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

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

PFU LIMITED

Imaging Service & Support center

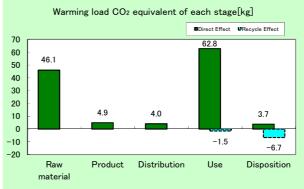
E-mail: scanners@pfu.fujitsu.com



Product Name	fi-7460
Product Category	Sheet-fed scanner (Without Flat-bed) For Business
Scanning Speed (A4L)	Simplex or Duplex, 60 ppm (120 ipm)
Scanning Size	305mm X 432mm
Optical Resolution	600 X 600 dpi (dots per inch)
Scanning Method	Color CCD (Charge coupled device) Image Sensor X2 (Front/Back)

Consumption and discharge in a life cycle	All the stage sum totals
Global Warming (CO2 equivalent)	121.5kg (113.3kg)
Acidification (SO2 equivalent)	0.189kg (0.176kg)
Energy resources (crude oil equivalent)	2,417MJ (2,224MI)

**Figures in () indicated environmental impact including recycle effect *note3



The burdens have been calculated with 10 scans per day, a monthly use of 20 days, and 5 years of use, for the number of scans of 12,000 times (9,600,000 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

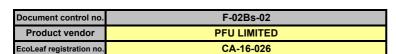
Independent verification of the declaration and data, according to ISO14025:2006 □internal ■external

Third party verifier: Keiichi Aramaki*

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)





製品環境情報

PCR name	Flat-bed / Sheet-fed	scanner	Product type	fi-7460				
PCR code	CA-01	Product weight (kg)	7.21	Package (kg)	2.03	Weight total (kg)	9.24	

			Life Cycle Stage	11.2	Produ	uction	District Co.	115.5	Discount of the second	Recycle
In/O	ut iter	ns		Unit	Raw material	Product	Distribution	Use	Disposition	Effect
		Г	0	MJ	8.63E+02	9.27E+01	5.45E+01	1.40E+03	5.51E+00	-1.93E+02
		Energy	Consumption	Mcal	2.06E+02	2.22E+01	1.30E+01	3.35E+02	1.32E+00	-4.61E+01
		> a	Coal	kg	4.91E+00	6.24E-01	1.27E-04	7.14E+00	2.74E-02	-8.58E-01
		Energy	Crude oil (for fuel)	kg	8.99E+00	7.05E-01	1.19E+00	9.54E+00	6.94E-02	-1.74E+00
		ine Sou	LNG	kg	1.60E+00	3.12E-01	1.84E-02	4.32E+00	1.44E-02	-3.39E-01
		ш ё	Uranium content of an ore	kg	1.62E-04	4.22E-05	8.62E-09	4.83E-04	1.85E-06	-4.65E-06
	Ē		Crude oil (for material)	kg	3.67E+00	0	0	1.29E+00	0	-1.52E+00
	Impact by Resource Consumption	_ω	Iron content of an ore	kg	2.33E+00	0	0	0	0	-9.08E-01
	ΕĒ	9	Cu content of an ore	kg	2.30E-01	0	0	0	0	-1.91E-02
	nsı	m	Al content of an ore	kg	1.06E-01	0	0	0	0	-2.08E-02
	ĺ	esc	Ni content of an ore	kg	1.37E-01	0	0	0	0	-1.85E-05
	0	e 92	C content of an ore	kg	1.85E-01	0	0	0	0	-3.37E-04
	Š	<u>ä</u> 8	Mn content of an ore	kg	3.08E-02	0	0	0	0	-7.89E-04
	1 20	lst -	Pb content of an ore	kg	8.77E-03	0	0	0	0	-1.55E-03
	Ses	Exhaustible resources Wineral resources	Sn content of an ore	kg	0	0	0	0	0	0
	K		Zn content of an ore	kg	8.63E-02	0	0	0	0	-1.52E-02
	۾ ا		Au content of an ore	kg	0	0	0	0	0	0
	act	=	Ag content of an ore	kg	0	0	0	0	0	0
es	d d		Silica Sand	kg	4.92E-01	0	0	0	0	-1.50E-01
js	_=		Halite	kg	1.44E+00	2.49E-04	0	1.59E-04	2.21E-03	-4.31E-02
nai		Renewable	Limestone	kg	5.88E-01	0	0	1.63E-02	3.34E-02	-1.97E-01
a /	nent Imp		Natural soda ash	kg	5.07E-02	0	0	0	0	-1.59E-02
9				kg	2.58E+00	0	0	3.68E+00	0	-3.10E+00
art I		resources	Water	kg	3.97E+03	5.17E+02	9.63E-02	6.06E+03	2.29E+01	-2.11E+02
Ž	ent		CO2	kg	4.49E+01	4.85E+00	3.86E+00	6.25E+01	3.70E+00	-7.92E+00
_	ΙE	စု	Sox	kg	3.33E-02	3.70E-03	2.74E-03	4.48E-02	1.99E-03	-3.63E-03
	<u>i</u> 2	hei	Nox	kg	6.09E-02	2.93E-03	2.49E-02	5.30E-02	5.11E-03	-1.32E-02
	<u>``</u>	sb	N2O	kg	4.25E-03	5.30E-05	5.55E-04	1.19E-03	8.13E-06	-9.54E-04
	e	to Atmosphere	CH4	kg	4.31E-04	1.13E-04	2.30E-08	1.29E-03	4.96E-06	-1.21E-05
	1 =	Atr	CO	kg	6.37E-03	7.17E-04	7.84E-03	1.16E-02	1.14E-03	-8.95E-04
	e E	Q Q	NMVOC	kg	8.42E-04	2.21E-04	4.52E-08	2.53E-03	9.72E-06	-2.37E-05
	arg		CxHy Dust	kg	2.01E-03 6.47E-03	1.16E-05 1.59E-04	6.56E-04 2.24E-03	5.35E-04 2.98E-03	3.61E-05 3.15E-04	-4.84E-04 -1.37E-03
	Ü		BOD	kg		1.59E-04	2.24E-03	2.90E-U3	3.13E-04	-1.37E-U3
	Emission/Discharge to the environmen	a u a		kg kg	-	-	-	-	-	-
)uc	/ati	N total	kg kg	-	-	-	-	-	-
	SSi	to Water system to Water	P total	kg		_	-	-		-
	Ë	5 0 5 5	SS	kg			-	-		
	by E		Unspecified Solid Waste	kg	4.91E-01	1.62E-03	0	6.32E-01	2.76E+00	1.56E+00
	t b	to Soil	Slag	kg	8.77E-01	0	0	0.32L-01	0	-2.92E-01
	mpact	system	Sludge	ka	1.12E-01	0	0	0	0	-4.47E-02
	E	o you can	Low level radio-active waste	kg	1.13E-04	2.95E-05	6.03E-09	3.37E-04	1.29E-06	-3.25E-06
nt	8.8	Exhaustible		kg	1.54E+01	1.83E+00	1.21E+00	2.33E+01	1.19E-01	-2.74E+00
me	by Resour Consumpti	resources	Mineral resources (Iron ore equivalent)	kq	1.59E+02	0	0	7.10E-01	0	-7.56E+00
assessment		. 000 0. 000	Global Warming (CO2 equivalent)	kg	4.61E+01	4.86E+00	4.01E+00	6.28E+01	3.70E+00	-7.56E+00 -8.18E+00
SS	sion / ge to ment	to	Acidification (SO2 equivalent)	kg	7.60E-02	5.75E-03	2.02E-02	8.19E-02	5.57E-03	-0.16E+00 -1.28E-02
a a	issic arge	Atmosphere	-	kg	7.00L-02	J.7 JL-03	Z.UZL-UZ	0.100-02	J.J/ L-03	-1.20L-02
Impact	by Emis Dischar environ		Photochemical Oxidant	kg	3.80E-03	1.63E-04	1.18E-03	2.50E-03	1.49E-04	-7.63E-04
E E	P. D. Ø	to Water syste		ka	J.00L-03	1.001-04	1.101-03	2.001-00	1.732-07	-7.00L-0 1
		37310	***	κų	<u> </u>	-	<u>-</u>		-	-

[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

- n. 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 forma

- $\ensuremath{\mathrm{A}}.$ 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 Indonesia, 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 9,600,000 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.

Product data sheet

(Input data and parameters for LCA)

	(
Document control no.	F-03s-02
Product vendor	PFU LIMITED
EcoLEaf registration no.	CA-16-026



PCR name	Flat-bed / Sheet-fed scanner (PCR-ID: CA-01)	Product type	fi-7460				
LCA/LCIA in units of:	1 unit	Product weight (kg)	7.21	Package (kg)	2.03	Weight total (kg)	9.24

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

	Bro	eakdown of pr	imary materials		Math breakdown of parts, which need to apply Processing / Assembly Base Units (Parts B, C)					
	Material name	Weight (kg)	Material name	Weight (kg)	Process name	Weight (kg)	Process name	Weight (kg)		
	Ordinary steel	1.33E+00	Thermoplastic resin	4.03E+00	Press molding:Iron (kg)	2.22E+00	Parts assembly (kg)	9.70E-01		
	SUS	8.64E-01	Rubber	7.00E-02	Press molding: Nonferrous metal (kg)	4.31E-01				
z	Other metals 1.58E		Wood	2.08E-03	Injection molding (kg)	3.84E+00				
Product	Aluminum	4.92E-02			Glass molding (kg)	4.81E-01				
Pro	Glass	4.75E-01								
	Semiconductor substrate	4.37E-01								
	Medium-sized motor	6.13E-01								
	Paper	1.21E+00								
	Subtotal	5.13E+00	Subtotal	4.10E+00						
		Total		9.24E+00	Subtotal	6.97E+00	Subtotal	9.70E-01		

Note The environmental burdens of the main unit, accessories and packaging materials are included.

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

SOx and NOx should be indicated in SO₂, NO₂ equivalent.

	Classification	Energy	Material			
in the	Distribution	Electricity (kWh)	Industrial water (kg)			
ll Su	Quantity	3.62E+00	4.29E+01			
Con	Note					
arge	Classification	Water system				
Disch	Distribution	Sewage processing (kg)				
/uois	Quantity	4.29E+01				
Emis	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	Diesel truck:	Diesel truck:	Diesel truck:	Diesel truck:	Freight by	Freight by	Freight by	Freight by
	transportation	10 ton (kg·km)	10 ton (kg·km)	10 ton (kg·km)	10 ton (kg·km)	ship (kg·km)	ship (kg·km)	ship (kg·km)	ship (kg·km)
	Conditions	Mass(kg)	Distance (km)	Loading Ratio(%w)	Load(kg·km)	Mass(kg)	Distance (km)	Loading Ratio(%w)	Load(kg·km)
	Quantity	9.24E+00	1.46E+01	5.74E+01	2.35E+02	9.24E+00	2.69E+01	1.00E+02	2.49E+02
	Note								
_	Means of	Freight by	Freight by	Freight by	Freight by	Diesel truck:	Diesel truck:	Diesel truck:	Diesel truck:
į.	transportation	ship (kg·km)	ship (kg·km)	ship (kg·km)	ship (kg·km)	10 ton (kg·km)	10 ton (kg·km)	10 ton (kg·km)	10 ton (kg·km)
<u>ja</u>	Conditions	Mass(kg)	Distance (km)	Loading Ratio(%w)	Load(kg·km)	Mass(kg)	Distance (km)	Loading Ratio(%w)	Load(kg·km)
Distribution	Quantity	9.24E+00	5.41E+03	1.00E+02	5.00E+04	9.24E+00	4.25E+01	5.74E+01	6.84E+02
Δ	Note								
	Means of	Diesel truck:	Diesel truck:	Diesel truck:	Diesel truck:				
	transportation	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)				
	Quantity	9.24E+00	5.00E+02	4.10E+01	1.13E+04				
	Note								
						•		•	

Note In accordance with the provisions of PCR, the burdens are calculated with 500km for the total domestic transportation distance. For transportation from Indonesia, 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	Condition	Condition
	Distribution	POM	Nitrile-butadiene	Paper	Injection	Parts	Electricity (kWh)	Diesel truck:	Freight by
		(polyacetal) (kg)	rubber (NBR) (kg)	(Western style)	molding (kg)	assembly (kg)	Liectificity (KVVII)	10 ton (kg·km)	ship (kg·km)
	Quantity	7.65E-01	8.60E-01	1.61E+00	1.63E+00	1.63E+00	1.24E+02	8.22E+01	8.69E+01
duct	Note								
Pro	Classification	Condition	Condition	Condition	Condition	Condition			
	Distribution	Freight by	Diesel truck:	Diesel truck:	Diesel truck:	Diesel truck:			
	Distribution	ship (kg·km)	10 ton (kg·km)	4 ton (kg·km)	2 ton (kg·km)	2 ton (kg·km)			
	Quantity	1.75E+04	2.39E+02	3.94E+03	1.12E+02	1.12E+02			
	Note								

Note In accordance with the provisions of PCR, the burdens of electricity consumption, consumables production and transportation are calculated with the total scanning number of 9,600,000 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	Consumption	Consumption	Process	Deduction	Process	Process
	Distribution	Shredding (kg)	Incineration to landfill (as ash) (kg)	Electricity (kWh)	Diesel oil as fuel (kg)	Recycle: to Thermoplastic pellet (kg)	POM (polyacetal) (kg)	Sorting: Nonterrous metal (by eddy current with wind force) (kg)	Recycle: to corrugated cardboard (kg)
les	Quantity	3.88E+00	1.28E+00	1.21E-01	1.07E-03	2.77E-01	2.77E-01	1.30E+00	8.30E-01
mables	Note								
	Classification	Deduction	Process						
Const	Distribution	Corrugated cardboard (kg)	Landfill: Industrial waste (kg)						
	Quantity	8.30E-01	8.43E-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	7.33E+00	2.35E+00	2.63E+00	3.69E-01	3.26E-03	8.76E-01	8.76E-01	6.33E-02
	Note								
	Classification	Deduction	Process	Deduction	Process	Deduction	Deduction	Process	Process
Scenario	Distribution	Copper plate (kg)	Recycle: to Aluminum plate (kg)	Aluminum plate (kg)	Recycle: to Glass (kg)	Glass (kg)	ABS (kg)	Sorting: Nonterrous metal (by eddy current with wind force) (kg)	Recycle: to corrugated cardboard (kg)
သိ	Quantity	6.33E-02	1.97E-02	1.97E-02	1.90E-01	1.90E-01	1.34E+00	9.78E-01	6.25E-01
	Note								
	Classification	Deduction	Process	Process	Deduction	Process	Condition	Condition	Condition
	Distribution	Corrugated cardboard (kg)	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	6.25E-01	1.97E-01	1.47E+00	1.23E-01	1.02E+00	5.32E+02	8.43E+01	1.70E+01
	Note	•							

Note Based on the recycling scenario 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

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.

Followings are the list of the basic units used in this LCA. The sources of these basic units are disclosed in the EcoLeaf Environmental Label LCI Common Basic Unit List (V2.1)

(URL:http://www.ecoleaf-jemai.jp/application/data/basicunit_en20150601.pdf).

1. Product information Section

Material name	No.	Basic Unit Name	Field	
Ordinaly stool	1	Cold-Rolled steel plate	Material Production (Metal)	
Ordinaly steel	2	Electroplated steel Plate	-Material Production (Metal)	
SUS	6	Stainless Steel Plate	Material Production (Metal)	
Other Metal	7	Copper plate	Material Production (Metal)	
Aluminum	8	Aluminum plate	Material Production (Metal)	
Glass	16	Glass	Material Production (Inorganic Chemistry)	
Semiconductor substrate	76	Assembled circuit board	Parts Production (General)	
Medium-sized motor	78	Medium-sized motor	Parts Production (General)	
Paper	67	Corrugated cardboard	Material Production (Wood and Paper)	
	69	Paper (Western style)		
	27	Low density polyethylene	Material Production (Synthetic Resin)	
	28	Polypropylene		
Thermoplastic resin	29	Polystyrene		
	30	PVC		
	32	Polycarbonate		
	34	POM (Polyacetal)		
	36	ABS		
	38	MMA Resin		
	39	PA66 (Polyamide 66)		
	40	PET		
	42	Expandable hardpolyurethane (Hard)		
	43	Expandable softpolyurethane (forautomobile)		
Rubber	48	Nitrile-butadiene rubber(NBR)	Material Production (Rubber)	
Rubbei	49	Styrene-butadiene rubber(SBR)	Iwateriai i Toutiction (Rubber)	
Wood	71	Wood chip (imported)	Material Production (Wood and Paper)	

Process name	No.	Basic Unit Name	Field	
Press molding:I ron (kg)	85	Press molding : Iron		
Press molding:N onferrous metal (kg)	86	Press molding : Nonferrous metal	Processing	
Injection molding (kg)	87	Injection molding		
Glass molding (kg)	89	Glass molding		
Parts assembly (kg)	90	Parts assembly	Assembly	

2. Production site information Section ~ 5. Disposition/Recycle stage information Section

	uction site information Section ~ 5. Disposition/Recycle stage information Basic Unit Name		
No.		Field	
1	Cold-Rolled steel plate		
2	Electroplated steel Plate	Material Production (Metal)	
6	Stainless Steel Plate		
7	Copper plate		
8	Aluminum plate		
16	Glass	Material Production (Inorganic Chemistry)	
27	Low density polyethylene		
28	Polypropylene	Material Production (Synthetic Resin)	
29	Polystyrene		
30	PVC		
32	Polycarbonate		
34	POM (Polyacetal)		
36	ABS		
38	MMA Resin		
39	PA66 (Polyamide 66)		
40	PET		
42	Expandable hardpolyurethane (Hard)		
43	Expandable softpolyurethane (forautomobile)		
48	Nitrile-butadiene rubber(NBR)	Material Production (Dubber)	
49	Styrene-butadiene rubber(SBR)	Material Production (Rubber)	
67	Corrugated cardboard		
69	Paper (Western style)	Material Production (Wood and Paper)	
71	Wood chip (imported)	` '	
76	Assembled circuit board	D / D / II / O II	
78	Medium-sized motor	Parts Production (General)	
85	Press molding : Iron		
86	Press molding : Nonferrous metal		
87	Injection molding	Processing	
89	Glass molding		
90	Parts assembly	Assembly	
99	Electricity		
101	Diesel oil as fuel	Electric Power and Fuel	
125	Industrial water	Utility (Water)	
129	Shredding	,	
130	Sorting:Iron(by magnetic force)		
131	Sorting: Nonferrous metal(by eddy current with windforce)	Disposal and Recycling (Crushing and Sorting)	
132	Sorting: Plastics (by relativedensity difference in water)		
133	Incineration to landfill(as ash)		
134	Incineration: Industrial waste		
136	Landfill: General waste	Disposal and Recycling (Incineration and Landfill)	
137	Landfill: Industrial waste		
138	Recycle: to cold-rolled steel		
139	Recycle: to copper plate		
140	Recycle: to Aluminum plate		
141	Recycle: to Thermoplasticpellet	Disposal and Recycling (Regeneration)	
142	Recycle: to corrugatedcardboard		
144	Recycle: to Confugated Cardboard Recycle: to Paper		
144	Recycle: to Glass		
	·	Dianagal and Danieline (Other)	
146	Sewage processing	Disposal and Recycling (Other)	