Product Environmental Aspects Declaration



EP and IJ printer (PCR-ID:AD-04)

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27.195MJ

(23,763MJ)

SHARP

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$\begin{tabular}{lll} \cdot & Maximum Paper Size : SRA3 \\ \cdot & Duplex copying : Standard \\ \hline & & Consumption and discharge in a life cycle & All the stage sum totals \\ \hline & & Global Warming (CO_2 equivalent) & 1,351kg & (1,206kg) \\ \hline & & & Acidification (SO_2 equivalent) & 2.0kg & (1.8kg) \\ \hline \end{tabular}$

DIGITAL FULL COLOR MULTIFUNCTIONAL SYSTEM MX-3571

· Making Technology: Electrophotographic Printer (EP)

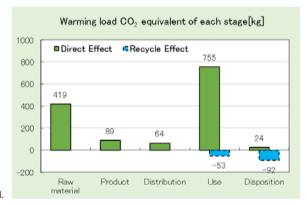
· Print Speed: Full-color 35 prints/minute (A4)

Energy resources (crude oil equivalent)

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



Environmental Impacts are calculated as follows: Use stage: Printing 729,600 sheets in 5 years. The picture is attached with options. Environmental impact by copypaper is not included.



- $1. \ Original\ LCA\ data\ is\ available\ on\ PEIDS:\ Product\ Environmental\ Information\ Declaration\ Sheet,\ and\ Product\ Data\ Sheet.$
- 2. Unified rules and requirements for EcoLeaf LCA, for intended product category, are available as a PSC: Product Specification Criteria. 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.

[Supplemental environmental information]

- · Certified Environmental Standards.
 - · International Energy Star Program, EPEAT (IEEE 1680.2), EU RoHS,
- · Manufactured at ISO14001 certified factories.
- · Adopt biomass-based plastics (JBP No.134).

PCR review was conducted by : PCR Deliberation Committee, January 01, 2008, Name of reprentative: Youji Uchiyama, University of Tsukuba, Graduate School

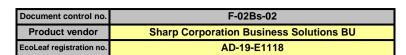
Independent verification of the declaration and data, according to ISO14025:2006 □internal ■external

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)





製品環境情報

PCR name	EP and IJ printer		Product type	MX-3571				
PCR code	AD-04	Product weight (kg)	87	Package (kg)	15	Weight total (kg)	102	

				Life Cycle Stage		Produ	uction				Recycle
In/Oı	ut iten	ne		Ene by old blage	Unit	Raw material	Product	Distribution	Use	Disposition	Effect
111/00	at item				MJ	7.58E+03	1.69E+03	8.51E+02	1.70E+04	6.94E+01	-3.43E+03
		Er	nergy C	Consumption	Mcal	1.81E+03	4.05E+02	2.03E+02	4.06E+03	1.66E+01	-3.43E+03 -8.20E+02
			60	Coal		5.89E+01	1.12E+01	1.99E-03	7.76E+01	1.65E-01	-8.20E+02 -2.24E+01
			onice	Crude oil (for fuel)	kg	7.08E+01	1.31E+01	1.86E+01	1.33E+02	1.21E+00	-2.24E+01 -2.95E+01
			7887	LNG	kg kg	1.37E+01	5.77E+00	2.87E-01	4.19E+01	9.89E-02	-8.36E-01
			nerg	Uranium content of an ore	kg	1.33E-03	7.55E-04	1.35E-07	4.48E-03	1.12E-05	1.46E-05
	_	ŀ	ш	Crude oil (for material)	kg	2.99E+01	8.61E-04	0	5.07E+01	0	-3.04E+01
	Consumption			Iron content of an ore	kg	4.53E+01	0.012-04	0	1.00E+01	0	-2.61E+01
	gu	ses		Cu content of an ore	kg	1.77E+00	0	0	3.55E-02	0	-3.08E-01
	μ	nr.		Al content of an ore	kg	8.31E-01	0	0	6.41E-01	0	-6.35E-01
	Suc	SOI	"	Ni content of an ore	kg	3.64E-01	0	0	3.68E-01	0	-5.32E-04
	ŏ	ē	ĕ	C content of an ore	kg	5.07E-01	0	0	5.02E-01	0	-9.70E-03
	Se	<u>e</u>	Š	Mn content of an ore	kg	2.77E-01	0	0	1.12E-01	0	-2.27E-02
	Į,	stik	resources	Pb content of an ore	kg	8.50E-02	0	0	2.88E-03	0	-2.50E-02
	Resource	aus	5	Sn content of an ore	kg	0.002 02	0	0	0	0	0
	Re	Exhaustible resources	ā	Zn content of an ore	kg	8.48E-01	0	0	2.84E-02	0	-2.46E-01
	ρ	ш	Mineral	Au content of an ore	kg	0	0	0	0	0	0
	ᇴ		≌	Ag content of an ore	kg	0	0	0	0	0	0
S	ba			Silica Sand	kg	3.20E+00	0	0	6.15E-01	0	-1.35E+00
/se	Impact			Halite	kg	2.37E+01	7.55E-04	0	3.05E+00	4.31E-02	-3.87E-01
anaiyses			Limestone	kg	9.76E+00	0	0	2.84E+00	5.50E-01	-4.75E+00	
an				Natural soda ash	kg	2.77E-01	0	0	5.63E-02	0	-1.26E-01
			Na process	Wood	kg	2.08E+01	0	0	2.92E+01	0	0
nventory			- Transfer	Water	kg	2.99E+04	8.58E+03	1.51E+00	5.45E+04	1.38E+02	-1.24E+03
\ e	Ħ			CO2	kg	4.10E+02	8.86E+01	6.05E+01	7.39E+02	2.40E+01	-1.40E+02
	ner		a)	Sox	kg	2.61E-01	6.68E-02	2.95E-02	5.17E-01	1.47E-02	-7.37E-02
	onr		ē	Nox	kg	4.82E-01	5.60E-02	1.61E-01	8.27E-01	7.02E-02	-2.15E-01
	Σ		녚	N2O	kg	3.51E-02	1.65E-03	1.19E-02	5.65E-02	1.01E-04	-1.87E-02
	ē		Atmosphere	CH4	kg	3.55E-03	2.02E-03	3.60E-07	1.20E-02	2.99E-05	5.17E-05
	the		È	CO	kg	5.61E-02	1.30E-02	1.69E-02	1.41E-01	2.13E-02	-1.97E-02
	\$		0	NMVOC	kg	6.94E-03	3.95E-03	7.05E-07	2.34E-02	5.85E-05	1.00E-04
	rge		=	СхНу	kg	1.72E-02	4.48E-04	6.66E-03	2.11E-02	9.58E-04	-9.82E-03
	ha			Dust	kg	5.61E-02	3.15E-03	1.84E-02	6.78E-02	4.23E-03	-3.02E-02
	Disc	E .	iain	BOD	kg	-	-	-	-	-	-
	7	system	dom	COD	kg	-	-	-	-	-	-
	Emission/Discharge to the environment	ater	o Water domain	N total	kg	-	-	-	•	-	-
	mis	to Water	×	P total	kg	-	-	-	-	-	-
		ţ		SS	kg		- 0.445.00	-	-	4.005.04	0.745.00
	t by		sten	Unspecified Solid Waste	kg	3.58E+00	2.14E-03	0	6.86E+01	4.86E+01	-3.71E+00
	Impact by		Soil system	Slag	kg	1.54E+01	0	0	3.37E+00 1.37E+00	0	-8.18E+00 -1.36E+00
	m		oS o	Sludge	kg	1.07E+00 9.33E-04	5.27E-04	9.41E-08	3.12E-03	7.80E-06	1.05E-05
+=			2	Low level radio-active waste Energy resources (crude oil equivalent)	kg	1.36E+02	3.34E+01	1.89E+01	2.70E+02	1.53E+00	-4.47E+01
assessment	by Res		and been	Mineral resources (Iron ore equivalent)	kg ka	7.55E+02	4.74E-04	0	3.42E+02	1.53E+00 0	-4.47E+01 -1.38E+02
SSIT	-		Φ	Global Warming (CO2 equivalent)		4.19E+02	8.91E+01	6.37E+01	7.55E+02	2.41E+01	-1.45E+02
ses	enviorm		pher	Acidification (SO2 equivalent)	kg ka	5.98E-01	1.06E-01	1.42E-01	1.10E+00	6.38E-02	-1.45E+02 -2.24E-01
t as	hargetoe		Isou	_ Acidification (SO2 equivalent)	- Kg	J.30L-01	1.00L-01	1.42L-01 -	1.10L+00 -	0.30L-02 -	-Z.Z4L-U1
act	on / Disc		to Atmosphere			_	_	_	_	_	_
Impact	y Brissa		-	_		-	-	-	-	-	_
- [Note	ъ.										

[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).

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.

- 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.)

Product data sheet

	(Input data and parameters for LCA)
Document control no.	F-03s-02
Product vendor	Sharp Corporation Business Solutions BU
EcoLEaf registration no.	AD-19-E1118



PCR name	EP and IJ printer	Product type			MX-357	71	
LCA/LCIA in units of:	1	Product weight (kg)	87	Package (kg)	15	Weight total (kg)	102

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

	Bro	eakdown of p	rimary materials		Math breakdown of parts, which	ch need to apply	Processing / Assembly Base Ur	nits (Parts B, C)
	Material name	Weight (kg)	Material name	Weight (kg)	Process name	Weight (kg)	Process name	Weight (kg)
	Normal steel	3.90E+01	paper	5.94E+00	Press molding:līron (kg)	3.83E+01	Parts assembly (kg)	1.01E+02
	Stainless steel	2.30E+00	semiconductor substrates	2.97E+00	Press molding:Nonferrous metal (kg)	1.89E+01		
	aluminum	4.72E-01	wood	8.15E+00	Injection molding (kg)	3.46E+01		
oduct	other metals	2.07E+00	Medium-sized motor (kg)	3.76E+00	Glass molding (kg)	2.42E+00		
	thermoplastic resins	3.46E+01	Ink (kg)	4.46E-03				
<u>~</u>	thermosetting resins	5.94E-04						
	rubber	1.54E-01						
	glass	2.42E+00						
	Subtotal	8.10E+01	Subtotal	2.08E+01				
		Total		1.02E+02	Subtotal	9.43E+01	Subtotal	1.01E+02

Note Toners included to the "Use stage".

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

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

lo	Classification	Energy	Energy	Energy	Energy	Material	Material	Material	
apt I	Distribution	Electricity (kWh)	Diesel oil as fuel (kg)	Heavy oil as fuel (kg)	Furnace LNG (kg)	Clean water (kg)	Acetone (kg)	Methanol(CH3OH) (kg)	
Insu	Quantity	6.60E+01	1.54E-01	3.44E-01	9.56E-02	1.30E+02	8.61E-04	1.50E-01	
Con	Note								
arge	Classification	Discharge							
Disch	Distribution	Sewage processing (kg)							
sion/	Quantity	1.30E+02							
Emis	Note								

Note

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

	Means of transportation	Diesel truck: 10 ton (kg·km)	Diesel truck: 10 ton (kg·km)	Diesel truck:10 ton (kg·km)	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)	Distance (km)	Loading Ratio(%w)	Load(kg·km)	Mass(kg)	Distance (km)	Loading Ratio(%w)	Load(kg·km)
e .	Quantity	1.02E+02	3.00E+01	1.00E+02	3.06E+03	1.02E+02	1.10E+04	1.00E+02	1.12E+06
outi	Note								
Distrib	Means of transportation	Diesel truck: 10 ton (kg·km)	Diesel truck: 10 ton (kg·km)	Diesel truck:10 ton (kg·km)	Diesel truck:10 ton (kg·km)	Diesel truck:2 ton (kg·km)	Diesel truck:2 ton (kg·km)	Diesel truck:2 ton (kg·km)	Diesel truck:2 ton (kg·km)
ĕ	Conditions	Mass(kg)	Distance (km)	Loading Ratio(%w)	Load(kg·km)	Mass(kg)	Distance (km)	Loading Ratio(%w)	Load(kg·km)
	Quantity	1.02E+02	7.00E+01	1.00E+02	7.14E+03	1.02E+02	3.00E+01	4.08E+01	7.50E+03
	Note								

Note The shipping distance of the products unloaded from a ship is set to 100km.

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 steel plate (kg)	Electroplated steel Plate (kg)	Stainless steel plate (kg)	Copper plate (kg)	Aluminum plate (kg)	Glass (kg)	High density polyethylene (kg)	Low density polyethylene (kg
	Quantity	5.51E+00	3.42E+00	2.33E+00	4.87E-02	6.06E-01	6.27E-01	3.20E-01	9.46E-01
	Note								
	Classification	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption
	Distribution	Polypropylene (kg)	Polystyrene (kg)	Polycarbonate (kg)	Polycarbonate-ABS (70/30) (kg)	POM(polyacetal) (kg)	ABS (kg)	MMA resin (kg)	PET (kg)
	Quantity	3.54E-02	2.60E+01	9.21E-01	1.09E+00	1.02E+00	5.83E-01	2.68E+01	2.91E-01
	Note								
	Classification	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption
	Distribution	Expandable soft polyurethane(for automobile) (kg)	Nitrile-butadiene rubber(NBR) (kg)	Styrene-butadiene rubber(SBR) (kg)	Butadiene rubber (BR) (kg)	Methanol(CH3OH) (kg)	Corrugated cardboard (kg)	Paper(Western style) (kg)	Assembled circuit board (kg
	Quantity	1.90E-01	7.35E-03	6.00E-02	8.12E-03	7.44E-03	1.37E+01	3.89E-02	1.51E-01
ם	Note								
Product	Classification	Consumption	Condition	Consumption	Consumption	Consumption	Consumption	Condition	Energy
-	Distribution	Ink (kg)	Diesel truck:10 ton (kg·km)	Press molding:Iron (kg)	Press molding:Nonferrous metal (kg)	Injection molding (kg)	Parts assembly (kg)	Freight by ship (kg·km)	Electricity (kWh)
	Quantity	2.24E+00	2.61E+03	6.65E+00	1.67E+01	3.15E+01	5.49E+01	9.56E+05	5.46E+02
	Note								
	Classification	Energy	Material	Material	Material	Energy	Condition	Consumption	Condition
	Distribution	Furnace LNG (kg)	Clean water (kg)	Acetone (kg)	Heavy oil as fuel (kg)	Diesel oil as fuel (kg)	Diesel truck: f0 ton (kg·km)	Electricity (kWh)	Diesel truck:2 ton (kg·km)
	Quantity	1.67E-01	2.28E+02	1.20E-03	6.02E-01	1.05E-01	6.08E+03	5.04E+02	6.52E+03
	Note								
	Classification	Condition	Condition	Condition					
	Distribution	Diesel truck: 4 ton (kg·km)	Diesel truck:10 ton (kg·km)	Diesel truck:4 ton (kg·km)					
	Quantity	6.52E+03	3.48E+04	1.09E+04					
	Note								
Note	According to	PCR provision Fr	vironmental Impac	ts are calculated fro	m the use stane of	printing 729 600 st	neets in 5 years		

4.2 015	position/ke	cycle informatio	n on consumable	es and replacem	ent parts				
	Classification	Discharge	Process	Process	Process	Process	Process	Process	Process
	Distribution	Sewage processing (kg)	Incineration: Industrial waste (kg)	Landfill:Industrial waste (kg)	Incineration to landfill(as ash) (kg)	Landfill:General waste (kg)	Sorting Iton(by magnetic force) (kg)	Soting Northman metalby eddy current with and liner; (kg)	Sorsing Plastice(by relative density difference in water) (kg)
	Quantity	2.28E+02	6.90E+00	2.00E-01	6.90E+00	5.22E+01	2.07E+01	1.62E+01	1.56E+01
	Note								
mables	Classification	Process	Process	Process	Process	Process	Process	Deduction	Deduction
nab	Distribution	Shredding (kg)	Recycle:to cold-rolled steel (kg)	Recycle:to copper plate (kg)	Recycle:fö Aluminum plate (kg)	Recycle:tō Glass (kg)	Recycle:tō Thermoplastic pellet (kg)	Cold-Rolled steel plate (kg)	Copper plate (kg)
	Quantity	2.07E+01	4.50E+00	2.00E-02	3.00E-01	3.00E-01	1.56E+01	4.50E+00	2.00E-02
Consi	Note								
	Classification	Deduction	Deduction	Deduction					
	Distribution	Aluminum plate (kg)	Glass (kg)	ABS (kg)					
	Quantity	3.00E-01	3.00E-01	1.56E+01					
	Note								

Note The values above are calculated based on a performance based recycling scenario.

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

	Classification	Process	Process	Process	Process	Process	Process	Process	Process
	Distribution	Incineration: Industrial waste (kg)	Landfill:lthdustrial waste (kg)	Incineration to landfill(as ash) (kg)	Landfill:General waste (kg)	Shredding (kg)	Sorting Ston(by magnetic force) (kg)	Sorting Northman metalby eably current with sond linker, (kg)	Sorting Plantice(by relative density difference in water) (kg)
	Quantity	7.10E+00	3.60E+00	7.10E+00	4.39E+01	4.03E+01	4.03E+01	1.96E+01	1.71E+01
	Note								
	Classification	Process	Process	Process	Process	Process	Deduction	Deduction	Deduction
nario	Distribution	Recycle:to cold-rolled steel (kg)	Recycle:to copper plate (kg)	Recycle:tō Aluminum plate (kg)	Recycle:tō Glass (kg)	Recycle:to Thermoplastic pellet (kg)	Cold-Rolled steel plate (kg)	Copper plate (kg)	Aluminum plate (kg)
cen	Quantity	2.07E+01	1.00E+00	3.00E-01	1.20E+00	1.71E+01	2.07E+01	1.00E+00	3.00E-01
S	Note								
	Classification	Deduction	Deduction	Condition	Condition	Condition			
	Distribution	Glass (kg)	ABS (kg)	Diesel truck:4 ton (kg·km)	Diesel truck:10 ton (kg·km)	Diesel truck:4 ton (kg·km)			
	Quantity	1.20E+00	1.71E+01	7.50E+03	2.05E+04	6.25E+03			
	Note								

Note The values above are calculated based on a performance based recycling scenario.

6. Others

The following basic units are used in this LCA.
The sources of these basic units are provided in the Eco Leaf Environmental Label LCI Common Basic Unit(V2.1.)

No	http://www.ecoleaf-jemai.jp/application/data/ Field	Base Unit Name	Unit
1	Material Production(Metal)	Cold-Rolled steel plate	kg
2		Electroplated steel Plate	kg
6		Stainless steel plate	kg
7		Copper plate	kg
8		Aluminum plate	kg
9		Zinc	kg
16	Material Production(Inorganic Chemistry)	Glass	kg
26	Material Production(Synthetic Resin)	High density polyethylene	kg
27		Low density polyethylene	kg
28		Polypropylene	kg
29		Polystyrene	kg
31		PBT	kg
32		Polycarbonate	kg
33		Polycarbonate-ABS (70/30)	kg
34		POM (polyacetal)	kg
36		ABS	kg
38		MMA resin	kg
39		PA66 (Polyamide 66)	kg
40	1	PET	kg
43	†	Expandable soft polyurethane	kg
46		Acrylic Nitrile	kg
47		Phenol resin (PF)	kg
48	Material Production(Rubber)	Nitrile-butadiene rubber (NBR)	kg
49		Styrene-butadiene rubber (SBR)	kg
50		Natural rubber	kg
51		Butadiene rubber (BR)	kg
55	Material Production(Organic Chemistry)	Methanol (CH3OH)	kg
62	,	Acetone	i.
67	Material Production(Wood and Paper)	Corrugated cardboard	kg
69		Paper (Western style)	kg kg
71		Wood chip (imported)	
72		Raw wood (imported)	kg
76	Material Production(General)	Assembled circuit board	kg
78		Medium-sized motor	kg
83	parts Production(Others)	Ink	kg
85	Processing		kg
86	T TOOGOODING	Press molding: Iron Press molding: Nonferrous metal	kg
87			kg
89		Injection molding	kg
90	Assembly	Glass molding	kg
	Distribution	Parts assembly	kg
91	Distribution .	Diesel truck: 2 ton	kg.km
92		Diesel truck: 4 ton	kg.km
93		Diesel truck: 10 ton	kg.km
97	Electricity and Eugl	Freight by ship	kg.km
99	Electricity and Fuel	Electricity	kWh
100	1	Heavy oil as fuel	kg
101	1	Diesel oil as fuel	kg
109	Htility (Water)	Furnace LNG	kg
126	Utility (Water)	Clean water	kg
129	Disposition and Recycle (Crushing and Sorting)	Shredding	kg
130		Sorting: Iron	kg
131	1	Sorting: Nonferrous metal	kg
132	Discovition and Decode (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Sorting: Plastics	kg
134	Disposition and Recycle (Incineration and Landfill)		kg
137		Landfill: Industrial waste	kg
138	Disposition and Recycle (Recovery)	Recycle: to cold-rolled steel	kg
139]	Recycle: to copper plate	kg
140]	Recycle: to Aluminum plate	kg
141		Recycle: to Thermoplastic pellet	kg
145		Recycle: to Glass	kg