

- 2. Unified rules and requirements for EcoLeaf LCA, for intended product category, are available as a PCR: Product Specification Criteria.
- Visit EcoLeaf website under JEMAI homepage at http://www.jemai.or.jp/ecoleaf_e/ 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. 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]

- Conformed to the International ENERGY STAR® Program.
- Manufactured at ISO14001 certified factories.
- Plastic housing and outer package: halogenated flame retardants are not used.

PCR review was conducted by : PCR Deliberation Committee, January 01,2008, Name of reprentative : Youji Uchiyama, Independent verification of the declaration and data, according to ISO14025:2006 Third party verifier: < name of the third party verifier *> Hiroo Sakazaki 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. The EcoLeaf is an environmental labeling program that belongs to the ISO-Type III category.

Product Environmental Information Data Sheet (PEIDS)



Unit Function DB version

Characterization Factor DB version

Document control no.	F-02Bs-03
Product vendor	KYOCERA Document Solutions Inc.
EcoLeaf registration no.	AD-14-E391

PCR name	EP and IJ print	er	Product type		ECOSYS	M6526cdn	
PCR code	AD-04	Product weight (kg)	36.83	Package (kg)	9.59	Weight total (kg)	46.42

_		_		Life Cycle Stage		Produ	uction				Recycle
In/Or	ut iten	~~~			Unit	Raw material	Product	Distribution	Use	Disposition	Effect
11/00	ut iten	115									
		Er	nerav (Consumption	MJ	4.30E+03	5.06E+02	1.01E+02	1.17E+04	3.53E+01	-4.95E+03
					Mcal	1.03E+03	1.21E+02	2.42E+01	2.79E+03	8.43E+00	-1.18E+03
			Inces	Coal	kg	2.56E+01	3.42E+00	2.37E-04	5.20E+01	4.34E-02	-2.08E+01
			resor	Crude oil (for fuel)	kg	4.42E+01	3.86E+00	2.22E+00	9.42E+01	6.56E-01	-4.65E+01
			argy -	LNG	kg	8.08E+00	1.85E+00	3.42E-02	2.76E+01	3.11E-02	-4.25E+00
			Ene	Uranium content of an ore	kg	8.07E-04	2.31E-04	1.61E-08	3.17E-03	2.94E-06	-1.88E-04
	S			Crude oil (for material)	kg	1.72E+01	0	0	3.42E+01	0	-4.22E+01
	otic	S		Iron content of an ore	kg	1.50E+01	0	0	4.99E+00	0	-1.82E+01
	Ē	ce		Cu content of an ore	kg	8.89E-01	0	0	7.65E-02	0	-1.57E+00
	ns	n		Al content of an ore	kg	7.17E-01	0	0	4.16E-01	0	-9.87E-01
	o	esc	Exhaustible resources Mineral resources	Ni content of an ore	kg	6.49E-02	0	0	3.13E-02	0	-9.62E-02
	O O	E C		C content of an ore	kg	9.24E-02	0	0	4.42E-02	0	-1.37E-01
	ő	ble		Mn content of an ore	kg	8.05E-02	0	0	3.15E-02	0	-2.93E-02
	no	Isti		Pb content of an ore	kg	4.55E-02	0	0	6.21E-03	0	-1.28E-01
	Impact by Resource Consumption	Jau		Sn content of an ore	kğ	0	0	0	0	0	0
	Ř	Ч.К.		Zn content of an ore	kg	4.48E-01	0	0	6.11E-02	0	-1.26E+00
	by	ш		Au content of an ore	kğ	0	0	0	0	0	0
	t			Ag content of an ore	kġ	0	0	0	0	0	0
ŝ	pa			Silica Sand	kğ	1.66E+00	0	0	1.98E-01	0	-1.41E+00
se	<u></u>			Halite	kğ	6.04E+00	0	0	1.23E+00	3.30E-04	-5.84E+00
aiy				Limestone	kğ	3.68E+00	0	0	1.19E+00	2.14E-02	-3.36E+00
an				Natural soda ash	kġ	1.53E-01	0	0	1.32E-02	0	-9.81E-02
≥			*	Wood	kġ	1.73E+01	0	0	7.46E+01	0	-9.13E+01
Inventory anaiyses			1	Water	kg	2.05E+04	2.59E+03	1.80E-01	4.33E+04	3.32E+01	-8.14E+03
ve	nt			CO2	kg	2.25E+02	2.65E+01	7.21E+00	5.02E+02	2.78E+00	-2.10E+02
Ē	me		0	Sox	ka	1.51E-01	2.02E-02	4.03E-03	3.34E-01	2.90E-03	-1.27E-01
	uo		o Atmosphere	Nox	ka	2.92E-01	1.61E-02	2.82E-02	5.37E-01	3.08E-02	-3.63E-01
	- Sir		ц Ч	N2O	kg	2.01E-02	2.96E-04	1.30E-03	2.98E-02	3.97E-05	-2.51E-02
	e		so	CH4	kğ	2.15E-03	6.18E-04	4.29E-08	8.46E-03	7.86E-06	-4.82E-04
	the		<u></u>	CO	kğ	3.03E-02	3.92E-03	6.14E-03	7.98E-02	1.17E-02	-2.65E-02
	to		۲ ۲	NMVOC	kġ	4.20E-03	1.21E-03	8.41E-08	1.66E-02	1.54E-05	-9.42E-04
	ge		Ę	СхНу	kg	9.63E-03	6.41E-05	9.34E-04	1.09E-02	6.06E-04	-1.22E-02
	Jar			Dust	kg	3.03E-02	8.68E-04	2.83E-03	3.59E-02	2.41E-03	-3.61E-02
	sci	Ę	.5	BOD	kg	-	4.93E-02	-	-	-	-
	Q	yste	domain	COD	kġ	-	-	-	-	-	-
	impact by Emission/Discharge to the environment	to Water system	er d	N total	kġ	-	-	-	-	-	-
	iss	Vate	Water	P total	ka	-	-	-	-	-	-
	3	to V	5 <	SS	kg	-	-	-	-	-	-
	<u>S</u>		E	Unspecified Solid Waste	kg	2.50E+00	5.50E-06	0	8.26E+00	1.08E-05	-3.20E+00
	of P		yste	Slag	kg	5.51E+00	0	0	1.73E+00	0	-7.00E+00
	pa		Soils	Sludge	ka	1.23E+00	0	0	8.92E-01	0	-2.12E+00
	<u>=</u>	to N		Low level radio-active waste	ka	5.65E-04	1.61E-04	1.12E-08	2.21E-03	2.05E-06	-1.31E-04
nt	~ s		-	Energy resources (crude oil equivalent)	kg	7.70E+01	1.02E+01	2.26E+00	1.87E+02	7.45E-01	-6.65E+01
assessment	by Res	Re		Mineral resources (Iron ore equivalent)	ka	2.84E+02	0	0	7.29E+01	0	-5.90E+02
SSI	ž	LG Los		Global Warming (CO2 equivalent)	kg	2.31E+02	2.66E+01	7.56E+00	5.10E+02	2.79E+00	-2.17E+02
sse	oeniron	phere		Acidification (SO2 equivalent)	kg	3.56E-01	3.15E-02	2.37E-02	7.10E-01	2.45E-02	-3.81E-01
t a	charge to		tho	Ozone Depletion (CFC-11 equivalent)	ka	0	0	0	0	0	0
Impact :	lion (D a	ā <		Photochemical Oxidant	kg	1.80E-02	8.93E-04	1.53E-03	2.60E-02	1.24E-03	-2.00E-02
Ĕ	oy Erview		1	Eutrophication (Phosphate equivalent)	ka	0	0.002.01	0	0	0	0
11		1	(interpreter a partition)	Ny							

[Notes for readers: Ecol.eaf 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.

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.We include package and attached articles, such as CD-ROM, operation manual in the product weight. Toner container as standard is included in the use stage, not in the product weight,

2.Production stage: Environmental impacts on main product, toner supplied with and drum are included in this stage. Production of main product is included as China production. Toner and drum are included as Japan production. 3. Transportation stage: Marine transport distance of a main product is 2.600km and domestic transport distance based on PCR provisions is 100km.

4.Use stage: Based on PCR provision, impact on 202,800 sheets monochrome printing and 202,800 sheets color printing by user for five years is considered

5.Disposal/Recycle: We have calculated on the basis of a performance-based recycle scenario.

This declaration was produced using Product Category Rule intended for a product model sold in the Japanese market and using the gualitative and guantitative data collected in Japan

Product data sheet



(Input data and parameters for LCA)

 Document control no.
 F-03s-03

 Product vendor
 KYOCERA Document Solutions Inc.

 EcoLEaf registration no.
 AD-13-E391

	PCR name	EP & IP Print	ter (PCR-ID:AD-04)	Product type ECOSYS P6526cdn					526cdn		
LCA	LCA/LCIA in units of:		1 Unit	Product weig	ght (kg) 36.83 Packa		Package	ge (kg) 9.59		Weight total (kg)	46.42
1. Prod	uct information (per unit):	oarts etc. by	material and by process/a	ssembly m	ethod						
	Bi	eakdown of p	rimary materials		Math bre	eakdown of p	arts, which	need to ap	ply Proces	sing / Assembly Base Uni	ts (Parts B, C)
	Material name	Weight (kg)	Material name	Weight (kg)	Pr	Process name		Veight (k	(g)	Process name	Weight (kg)
	Carbon steel(kg)	1.26E+01	Paper (kg)	8.13E+00	Press n	Press molding: Iron (kg)		1.30E+0	1 Pa	rts assembly (kg)	4.62E+01
	SUS (kg)	4.09E-01	Assembled circuit board (kg)	2.21E+00	Press molding:Nonferrous metal (kg)		netal (kg)	1.21E+0	0		
÷	Cu (kg)	8.48E-01	Medium-sized motor (kg)	1.66E+00	Injecti	Injection molding (kg)		1.87E+0	1		
duct	AI (kg)	5.40E-01			Blow	v molding ((kg)	1.12E-0	1		
2	Glass (kg)	1.17E+00			Glas	s molding	(kg)	1.17E+0	0		
	Thermoplastics resin (kg)	1.87E+01									
	thermosetting resin (kg)	1.14E-01									
	Rrubber (kg)	5.55E-02									
	Subtotal	3.44E+01	Subtotal	1.20E+01							
		Total		4.64E+01		Subtotal		3.42E+0	1	Subtotal	4.62E+01

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 SO₂, NO₂ equivalent.

ion	Classification	Energy	Material	Energy			
	Distribution	Electricity (kWh)	Industrial water (kg)	LNG (kg)			
Insuo	Quantity	1.52E+01	1.46E-01	1.39E-01			
Co	Note						
arge	Classification	Water system					
Disch	Distribution	BOD					
sion/	Quantity	4.93E-02					
Emis	Note						

Note

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

u	Means of transportation	Diesel truck:10 ton (kg·km)	Freight by ship (kg·km)						
Distributi	Conditions	Mass(kg)	Distance (km)	Loading Ratio(%w)	Load(kg·km)	Mass(kg)	Distance (km)	Loading Ratio(%w)	Load(kg·km)
	Quantity	4.64E+01	1.00E+02	3.90E+01	1.19E+04	4.64E+01	2.60E+03	1.00E+02	1.21E+05
	Note								
Note									

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	Process	Process	Process	Process	Process	Process
	Distribution	Electricity (kWh)	Industrial water (kg)	Injection molding (kg)	Blow molding (kg)	Parts assembly (kg)	Diesel truck:2 ton (kg · km)	Press molding:Iron (kg)	Press molding:Nonferrous metal (kg)
	Quantity	7.20E+02	6.66E+01	2.64E+01	1.22E-01	6.57E+01	1.38E+04	3.59E+00	2.59E-01
	Note								
	Classification	Process	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption
roduct	Distribution	Glass molding (kg)	Carbon steel(kg)	SUS (kg)	Cu (kg)	Al (kg)	Glass(kg)	Thermoplastics resin (kg)	thermosetting resin (kg)
Proc	Quantity	2.00E-02	4.75E+00	1.98E-01	4.01E-02	3.93E-01	2.00E-02	3.87E+01	1.25E-01
	Note								
	Classification	Consumption	Consumption	Consumption					
	Distribution	Rrubber (kg)	Paper (kg)	Assembled circuit board (kg)					
	Quantity	6.37E-02	3.48E+01	4.67E-01					
	Note								

Note

4.2 Disposition/Recycle information on consumables and replacement parts

	Classification	Process	Process	Process	Process	Process	Process	Process	Deduction
	Distribution	Recycle:to copper plate (kg)	Recycle:to Aluminum plate (kg)	Recycle:to Thermoplastic pellet (kg)	Recycle:to corrugated cardboard (kg)	Recycle:to Glass (kg)	Shredding (kg)	Recycle:to cold-rolled steel (kg)	Carbon steel(kg)
les	Quantity	5.07E-01	3.93E-01	2.64E+01	3.48E+01	2.00E-02	6.70E+01	4.95E+00	4.75E+00
mabl	Note								
su	Classification	Deduction	Deduction	Deduction	Deduction	Deduction			
Con	Distribution	SUS (kg)	Cu (kg)	AI (kg)	Thermoplastics resin (kg)	Paper (kg)			
-	Quantity	1.98E-01	5.07E-01	3.93E-01	2.64E+01	3.48E+01			
	Note								

Note

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

	Classification	Process	Process	Process	Process	Process	Process	Process	Process
	Distribution	Diesel truck:10 ton (kg·km)	Diesel truck:2 ton (kg·km)	Electricity (kWh)	Incineration: Industrial waste (kg)	Shredding (kg)	Recycle:to cold-rolled steel (kg)	Recycle:to copper plate (kg)	Recycle:to Aluminum plate (kg)
	Quantity	4.76E+03	9.33E+03	7.40E-01	3.30E-01	4.62E+01	1.30E+01	4.71E+00	5.40E-01
	Note								
0	Classification	Process	Process	Process	Deduction	Deduction	Deduction	Deduction	Deduction
Scenario	Distribution	Recycle:to Thermoplastic pellet (kg)	Recycle to corrugated cardboard (kg)	Recycle:to Glass (kg)	Carbon steel(kg)	SUS (kg)	Cu (kg)	AI (kg)	Glass (kg)
cer	Quantity	1.87E+01	8.13E+00	1.17E+00	1.26E+01	4.09E-01	4.71E+00	5.40E-01	1.17E+00
s	Note								
	Classification	Deduction	Deduction						
	Distribution	Thermoplastics resin (kg)	Paper (kg)						
	Quantity	1.87E+01	8.13E+00						
	Note								
Note									

6. Others

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