

- 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 internal external 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 ${\rm I\!I\!I}$ category.

Product Environmental Information Data Sheet (PEIDS)



Unit Function DB version

Characterization Factor DB version

Document control no.	F-02Bs-02
Product vendor	KYOCERA Document Solutions Inc.
EcoLeaf registration no.	AD-18-E995

PCR name	EP & IP Printe	Product type	ECOSYS M8124cidn				
PCR code	AD-04	Product weight (kg)	75.23	Package (kg)	23.21	Weight total (kg)	98.44

InvOcut items Unit Raw material Product Distribution Use Disposition Effect Energy Consumption MJ 6.88 ± 03 1.052 ± 03 8.075 ± 02 2.096 ± 02 7.182 ± 03 5.51 ± 01 -7.125 ± 01 -7.125 ± 03 1.325 ± 01 -7.125 ± 03 1.325 ± 01 -7.125 ± 03 1.325 ± 01 -7.125 ± 03 1.325 ± 01 -7.125 ± 03 -3.955 ± 03 4.985 ± 03 4.985 ± 00 4.985 ± 00 4.985 ± 03					Life Cycle Stage		Produ	uction				Recycle
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Image: Second		sior	ers	erd	N total	kg	-	-	-	-	-	-
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Image: Second		Ш	to	to		kg		-		-	-	-
Image: Second		þ		em	Unspecified Solid Waste	kg		3.45E-06		9.29E+00	3.78E-04	-6.26E+00
Image: Second		t		syst	Slag	kg	1.20E+01			3.15E-01		-1.21E+01
Image: Second		ba			Sludge	kg	2.72E+00			0		-2.72E+00
Energy resources (crude oil equivalent) kg 1.20E+02 1.70E+01 4.64E+00 1.12E+02 1.19E+00 -1.02E+0 % % % % 4.36E+02 0 0 2.01E+01 0 -7.48E+0 % % % 3.70E+02 4.53E+01 1.56E+01 2.97E+02 2.04E+01 -3.20E+0 % % % 5.70E-01 5.35E-02 4.47E-02 4.37E-01 4.94E-02 -5.31E-0		1			Low level radio-active waste	kg						-2.18E-04
B C <thc< th=""> <thc< th=""> <thc< th=""> <thc< th=""></thc<></thc<></thc<></thc<>	ent	y 3S			Energy resources (crude oil equivalent)			1.70E+01	4.64E+00		1.19E+00	-1.02E+02
Sign Global Warming (CO2 equivalent) kg 3.70E+02 4.53E+01 1.56E+01 2.97E+02 2.04E+01 -3.20E+0 Acidification (SO2 equivalent) kg 5.70E-01 5.35E-02 4.47E-02 4.37E-01 4.94E-02 -5.31E-0 Dozone Depletion (CFC-11 equivalent) kg 0 0 0 0 0	me	R P			Mineral resources (Iron ore equivalent)		4.36E+02	0	0	2.01E+01	0	-7.48E+02
8 4 6 Acidification (SO2 equivalent) kg 5.70E-01 5.35E-02 4.47E-02 4.37E-01 4.94E-02 -5.31E-0 0	ess	creect		ere	Global Warming (CO2 equivalent)	kg	3.70E+02	4.53E+01	1.56E+01	2.97E+02	2.04E+01	-3.20E+02
$\frac{\omega}{2}$ $\frac{\omega}$	ISSE	to en iro		hds	Acidification (SO2 equivalent)		5.70E-01	5.35E-02	4.47E-02	4.37E-01	4.94E-02	-5.31E-01
	t a	schage		tmo	Ozone Depletion (CFC-11 equivalent)		0	0		0	0	0
g Photochemical Oxidant kg 2.97E-02 1.52E-03 2.95E-03 1.74E-02 1.27E-03 -2.95E-0	mpact	mikon / D	to At		Photochemical Oxidant		2.97E-02	1.52E-03	2.95E-03	1.74E-02	1.27E-03	-2.95E-02
E turophication (Phosphate equivalent) kg 0 0 0 0 0 0 0 0	<u>=</u>	try Ensi		-	Eutrophication (Phosphate equivalent)	kg	0	0	0	0	0	0

[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 172,800 sheets monochrome printing and 172,800 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





 Document control no.
 F-03s-03

 Product vendor
 KYOCERA Document Solutions Inc.

 EcoLEaf registration no.
 AD-18-E995

	PCR name		EP & IP Print	er (PCR-ID:AD-04)	Product type				ECOS	SYS M8	124cidn	
L	CA/LCIA in units of:		1 Unit F		Product weig	ght (kg) 75.23 Pac		Package	(kg) 2	3.21	Weight total (kg)	98.44
1. Pro	1. Product information (per unit): parts etc. by material and by process/assembly method											
		Br	eakdown of pr	imary materials		Math b	reakdown of par	ts, which r	need to app	y Proces	sing / Assembly Base Un	its (Parts B, C)
	Material na	Material name		Material name	Weight (kg)	F	Process name	e V	Veight (kg)	Process name	Weight (kg)
	Carbon stee	Carbon steel(kg)		Rrubber (kg)	1.79E-01	Press	Press molding: Iron (kg)		3.18E+01	Pa	rts assembly (kg)	9.82E+01
	SUS (kg	SUS (kg)		Paper (kg)	1.13E+01	Press mo	Press molding:Nonferrous metal (kg)		2.41E+00			
+	Cu (kg)	1.43E+00	Wood(kg)	1.09E+01	Injec	njection molding (kg) 3.		3.43E+01			
Product	AI (kg)		1.20E+00	Assembled circuit board (kg)	2.42E+00	Blo	ow molding (k	(g)	1.02E-01			
	Other Meta	l (kg)	3.10E-02	Medium-sized motor (kg)	2.74E+00	Gla	ass molding (kg)	2.12E+00			
–	Glass (k	g)	2.12E+00									
	Thermoplastics	resin (kg)	3.39E+01									
	thermosetting r	esin (kg)	4.44E-01									
	Subtota	ıl	7.09E+01	Subtotal	2.75E+01							
		Total					Subtotal		7.07E+01		Subtotal	9.82E+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.

tion	Classification	Energy	Material	Energy			
mpt	Distribution	Electricity (kWh)	Industrial water (kg)	LNG (kg)			
Insu	Quantity	6.50E+00	9.14E-02	2.30E-02			
Col	Note						
arge	Classification	Water system					
Disch	Distribution	BOD					
Emission/	Quantity	4.77E-03					
	Note						

Note

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

Distribution	Means of transportation	Diesel truck:10 ton (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)
	Quantity	9.84E+01	1.00E+02	5.12E+01	1.92E+04	9.84E+01	2.60E+03	1.00E+02	2.56E+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	Consumption	Consumption
	Distribution	Electricity (kWh)	Industrial water (kg)	Injection molding (kg)	Blow molding (kg)	Parts assembly (kg)	Diesel truck:2 ton (kg·km)	Carbon steel(kg)	Thermoplastics resin (kg)
+	Quantity	2.99E+02	2.88E+01	2.57E+01	3.12E-02	6.13E+01	1.30E+04	9.60E-01	3.68E+01
duct	Note								
Proc	Classification	Consumption	Consumption	Consumption	Consumption				
_	Distribution	thermosetting resin (kg)	Rrubber (kg)	Paper (kg)	Assembled circuit board (kg)				
	Quantity	3.12E-02	3.08E-02	3.55E+01	3.90E-02				
	Note								

Note

4.2 Disposition/Recycle information on consumables and replacement parts

	Classification	Process	Process	Process	Process	Process	Deduction	Deduction	Deduction
lables	Distribution	Shredding (kg)	Recycle:to copper plate (kg)	Recycle:to Thermoplastic pellet (kg)	Recycle:to corrugated cardboard (kg)	Recycle:to cold-rolled steel (kg)	Carbon steel(kg)	Cu (kg)	Thermoplastics resin (kg)
	Quantity	6.22E+01	3.90E-02	2.57E+01	3.55E+01	9.60E-01	9.60E-01	3.90E-02	2.57E+01
nab	Note								
Insu	Classification	Deduction							
Co	Distribution	Paper (kg)							
	Quantity	3.55E+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	7.69E+03	8.01E+03	4.80E-01	1.16E+01	8.69E+01	3.18E+01	6.59E+00	1.20E+00
	Note								
	Classification	Process	Process	Process	Deduction	Deduction	Deduction	Deduction	Deduction
cenario	Distribution	Recycle:to Thermoplastic pellet (kg)	Recycle:to corrugated cardboard (kg)	Recycle:to Glass (kg)	Carbon steel(kg)	SUS (kg)	Cu (kg)	AI (kg)	Other metal (kg)
cer	Quantity	3.39E+01	1.13E+01	2.12E+00	3.12E+01	6.13E-01	6.59E+00	1.20E+00	3.10E-02
s	Note								
	Classification	Deduction	Deduction	Deduction					
	Distribution	Glass (kg)	Thermoplastics resin (kg)	Paper (kg)					
	Quantity	2.12E+00	3.39E+01	1.13E+01					
	Note								
Note									

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.