

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 III 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-14-E356

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ſ	PCR name	EP and IJ Printer		Product type	TASKalfa 3010i				
1	PCR code	AD-04	Product weight (kg)	58.93	Package (kg)	30.54	Weight total (kg)	89.47	

Out Instruction Product Description Use Description Enance Image: Section of the sect			_		Life Cycle Stage		Produ	uction				Desuels
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Bit Matrix Ozone Depletion (CFC-11 equivalent) kg O </td <td>ISSI</td> <td>toenin</td> <td></td> <td>hqs</td> <td>Acidification (SO2 equivalent)</td> <td>kg</td> <td>4.38E-01</td> <td>4.93E-02</td> <td>4.23E-02</td> <td>4.36E-01</td> <td>5.75E-02</td> <td>-3.17E-01</td>	ISSI	toenin		hqs	Acidification (SO2 equivalent)	kg	4.38E-01	4.93E-02	4.23E-02	4.36E-01	5.75E-02	-3.17E-01
Image: Second	ct	1 scheige		Atmo	Ozone Depletion (CFC-11 equivalent)	kg	U	0	0	U U	0	•
E 5 Eutrophication (Phosphate equivalent) kg 0 0 0 0 0 0 0	pa	tation / D		to /	Photochemical Oxidant	kg	2.34E-02	1.45E-03	2.77E-03		1.23E-03	
	Ш	by Ens			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 540,000 sheets monochrome 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-02
Product vendor	KYOCERA Document Solutions Inc.
EcoLEaf registration no.	AD-14-E356



	PCR name	EP & IP Print	er (PCR-ID:AD-04)	Product t	уре				TASKa	alfa 3010i	
LCA/	LCIA in units of:	1 Unit F		Product weig	ght (kg) 58.93 Packa		Package (kg) 30.54		4 Weight total (kg)	89.47	
1. Produ	uct information (per unit): p	arts etc. by	material and by process/as	sembly me	ethod						
	Br		Math br	reakdown of p	arts, v	which need to	apply Pro	ocessing / Assembly Base U	nits (Parts B, C)		
	Material name	Weight (kg)	Material name	Weight (kg)	P	Process nam	me	Weigh	t (kg)	Process name	Weight (kg)
	Carbon steel(kg)	2.97E+01	Paper (kg)	1.46E+01	Press molding: Iron (kg)		g) 3.00E	+01	Parts assembly (kg)	8.93E+01	
	SUS (kg)	3.43E-01	Wood (kg)	1.56E+01	Press molding:Nonferrous metal (kg)		^{g)} 1.50E	+00			
÷.	Cu (kg)	1.38E+00	Assembled circuit board (kg)	2.35E+00	Injection molding (kg)		g) 2.26E	+01			
duct	AI (kg)	2.45E-01	Medium-sized motor (kg)	9.30E-01	Blo	ow molding	(kg)	2.64	-02		
2	Glass (kg)	1.60E+00			Gla	iss molding	ı (kg)	1.60	+00		
٩	Thermoplastics resin (kg)	2.26E+01									
	thermosetting resin (kg)	3.62E-02									
	Rrubber (kg)	5.25E-02									
	Subtotal	5.59E+01	Subtotal	3.35E+01							
		Total		8.95E+01		Subtotal		5.58E	+01	Subtotal	8.93E+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	Energy		
npt	Distribution	Electricity (kWh)	Industrial water (kg)	Heavy oil as fuel (kg)	Gasoline as fuel (kg)		
Insu	Quantity	1.53E+01	6.03E+01	9.19E-02	1.14E-03		
Ĉ	Note						
arge	Classification	Water system	Atmosphere				
Disch	Distribution	BOD	CH4				
Emission/	Quantity	6.10E-04	2.95E-03				
	Note						

Note

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

				, ,	,			0		
ibution		portation	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)			
	5 Conditi	ons	Mass(kg)	Distance (km)	Loading Ratio(%w)	Load(kg·km)	Mass(kg)	Distance (km)	Loading Ratio(%w)	Load(kg·km)
+	, Quan	tity	8.95E+01	1.00E+02	4.65E+01	1.92E+04	8.95E+01	2.60E+03	1.00E+02	2.33E+05
Ë	5 Note	e								

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)	Thermoplastics resin (kg)	thermosetting resin (kg)
	Quantity	5.39E+02	3.12E-02	1.28E+01	2.80E-02	2.96E+01	7.50E+03	3.30E+01	2.80E-02
duct	Note								
Proc	Classification	Consumption	Consumption						
-	Distribution	Paper (kg)	Assembled circuit board (kg)						
	Quantity	1.67E+01	7.85E-03						
	Note								

Note

4.2 Disposition/Recycle information on consumables and replacement parts

les	Classification	Process	Process	Process	Process	Deduction	Deduction	Deduction	
nab	Distribution	Recycle:to copper plate (kg)	Recycle:to Thermoplastic pellet (kg)	Recycle:to corrugated cardboard (kg)	Shredding (kg)	Cu (kg)	Thermoplastics resin (kg)	Paper (kg)	
Insu	Quantity	7.85E-03	1.28E+01	1.67E+01	2.95E+01	7.85E-03	1.28E+01	1.67E+01	
Ō	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	7.50E+03	1.40E-01	1.57E+01	7.38E+01	3.00E+01	4.65E+00	2.45E-01
	Note								
0	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)	Glass (kg)
cer	Quantity	2.26E+01	1.46E+01	1.60E+00	2.97E+01	3.43E-01	4.65E+00	2.45E-01	1.60E+00
s	Note								
	Classification	Deduction	Deduction						
	Distribution	Thermoplastics resin (kg)	Paper (kg)						
	Quantity	2.26E+01	1.46E+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