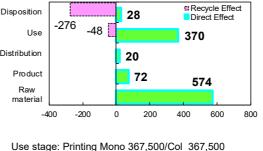


Parts located at of top of Main body is document feeder(DP-7110) as optional equipment. It isn't included in the range of calculation.



A4 sheets in 5 years.

The environmental load of sheet in"Use" stage is not included in above data

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. 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

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 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-19-E1132

-								
	PCR name	EP and IJ Printer		Product type	TASKalfa 3553ci			
	PCR code	AD-04	Product weight (kg)	101.01	Package (kg)	28.37	Weight total (kg)	129.38

		_		Life Cycle Stage		Prod	uction				Recycle
In/O	ut iten	nc			Unit	Raw material	Product	Distribution	Use	Disposition	Effect
11/00	ut iten	115						0.005.00	0.045.00	E E7E : 04	
		E	nergy C	Consumption	MJ	1.01E+04	1.32E+03	2.68E+02	9.84E+03	5.57E+01	-6.78E+03
	-			'	Mcal	2.41E+03	3.15E+02	6.39E+01	2.35E+03	1.33E+01	-1.62E+03
			urcei	Coal	kg	7.41E+01	9.06E+00	6.25E-04	3.72E+01	2.12E-01	-4.87E+01
			reso	Crude oil (for fuel)	kg	9.98E+01	1.05E+01	5.84E+00	7.48E+01	8.04E-01	-5.60E+01
			ergy	LNG	kg	1.96E+01	4.53E+00	9.02E-02	2.72E+01	1.15E-01	-8.64E+00
			Ш	Uranium content of an ore	kg	1.98E-03	6.12E-04	4.24E-08	2.47E-03	1.43E-05	-4.54E-04
	no			Crude oil (for material)	kg	3.35E+01	0	0	3.54E+01	0	-4.62E+01
	pti	Se		Iron content of an ore	kg	4.92E+01	0	0	8.63E-01	0	-4.29E+01
	Ę	rce		Cu content of an ore	kg	4.06E+00	0	0	1.65E-04	0	-5.53E+00
	USI	no		Al content of an ore	kg	2.29E+00	0	0	0	0	-1.71E+00
	ō	sə.	resources	Ni content of an ore	kg	2.77E-01	0	0	1.76E-05	0	-2.77E-01
	e	еı		C content of an ore	kg	3.89E-01	0	0	3.20E-04	0	-3.90E-01
	DIT O	tibl	SOL	Mn content of an ore	kg	2.67E-01			4.58E-03		-7.61E-02
	sol	Exhaustible resources	res	Pb content of an ore	kg	2.26E-01	0	0	1.34E-05	0	-4.51E-01
	Se	ha	5	Sn content of an ore	kg	0 2.23E+00	0	0	0	0	0
	Y	EX	Mineral	Zn content of an ore	kg		0	0	1.32E-04	0	-4.45E+00
	ses Impact by Resource Consumption Exhaustible resources		Air	Au content of an ore	kg	0	0	0	0	0	0
	ac		-	Ag content of an ore	kg				v		-3.52E+00
es	đ			Silica Sand	kg	4.03E+00	0	0	1.05E-02	0	
anaiyses	I			Halite	kg	2.95E+01	0	0	5.13E-01	1.69E-02	-2.74E+01
na				Limestone	kg	1.07E+01 3.13E-01	0	0	2.02E-01 2.97E-05	1.09E+00	-7.87E+00
/ a				Natural soda ash	kg		0	0		0	-1.93E-01
LO.			-	Wood	kg	4.03E+01 4.78E+04	0 7.10E+03	0 4.74E-01	4.04E+01 3.03E+04	0 1.77E+02	-6.46E+01
Inventory			1	Water	kg					-	-1.25E+04
Ž	eni			CO2	kg	5.61E+02	7.13E+01	1.90E+01	3.61E+02	2.81E+01	-3.16E+02
_	E L		ē	Sox	kg	4.08E-01	5.41E-02	9.91E-03	2.34E-01	1.57E-02	-2.40E-01
	ic		he	Nox N2O	kg	6.88E-01	4.48E-02 9.73E-04	6.18E-02	3.42E-01	5.38E-02	-4.48E-01
	2 L		sp	IN2O CH4	kg	4.79E-02 5.27E-03	9.73E-04 1.64E-03	3.59E-03 1.13E-07	3.33E-02 6.61E-03	8.64E-05 3.83E-05	-3.14E-02 -1.17E-03
	ě		Ê	CH4 CO	kg	8.10E-02	1.05E-02	1.05E-02	5.53E-02		
	0 th		o Atmosphere		kg					1.12E-02	-4.96E-02
	etc		9	NMVOC	kg	1.03E-02	3.21E-03 2.71E-04	2.22E-07	1.29E-02 8.22E-03	7.52E-05 4.30E-04	-2.30E-03
	arg			CxHy	kg	2.27E-02		2.27E-03			-1.57E-02
	Impact by Emission/Discharge to the environment	c	-	Dust BOD	kg kg	7.44E-02	2.57E-03 3.31E-03	6.57E-03	1.90E-02	1.65E-03	-5.17E-02
	Dis	ster	maii	COD	kg	-	3.3TE-03				
	l/uc	to Water system	Water domain	N total		-	-	-	-	-	-
	ssic	ater	ater	P total	kg	-	-	-	-	-	-
	Ш,	N N	Ň	IP total	kg	-		-			
	Ш	ţ	4 F	Unspecified Solid Waste	kg	- 4.42E+00	- 9.01E-03	- 0	- 1.81E+01	- 5.52E-04	-4.96E+00
	tb		rster	Slag	kg ka	2.02E+01	9.01E-03	0	2.61E-01	0	-4.96E+00 -1.82E+01
	Dac		oil sy			3.66E+00	0	0	2.01E-01	0	-3.66E+00
	Ĕ		o Soil	Sludge Low level radio-active waste	kg	1.39E-03	4.28E-04	2.96E-08	1.72E-03	1.00E-05	-3.18E-04
Ŧ			4	Energy resources (crude oil equivalent)	ka ka	1.87E+02	2.68E+01	5.95E+00	1.52E+02	1.20E+00	-1.01E+02
assessment	by Res			Mineral resources (Iron ore equivalent)	kg ka	1.28E+03	2.00E+01	0	2.05E+01	1.20E+00	-1.95E+03
ssn	200		e	Global Warming (CO2 equivalent)	kg	5.74E+02	7.16E+01	2.00E+01	3.70E+02	2.81E+01	-3.25E+02
se	eniron		phei	Acidification (SO2 equivalent)	kg ka	8.89E-01	8.55E-02	5.31E-02	4.73E-01	5.34E-02	-5.53E-01
as	age to		Som	Ozone Depletion (CFC-11 equivalent)	kg ka	0.09E-01	0.55E-02	0	4.73E-01	0	-5.53E-01
Impact	Sn (Disc		to Atr	Photochemical Oxidant	kg ka	4.38E-02	2.52E-03	3.59E-03	1.64E-02	8.79E-04	-2.84E-02
dm	y Dri mk		-	Eutrophication (Phosphate equivalent)	kg ka	4.30E-02	0	0	1.04E-02	0.79E-04	-2.04E-02
_	In wa		3	Europhication (Priosphate equivalent)	KY	v	v	v	v	v	v

[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,

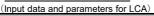
2.Production stage: Environmental impacts on main product, toner supplied with and drum are included in this stage. Production of main product is included as China production. Toner and drum are included as Japan production. 3.Transportation stage: Marine transport distance of a main product is 2,600km and domestic transport distance based on PCR provisions is 100km.

4.Use stage: Based on PCR provision, impact on 367.500 sheets monochrome printing and 367.500 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-02

 Product vendor
 KYOCERA Document Solutions Inc.

 EcoLEaf registration no.
 AD-19-E1132



_													
		PCR name		EP & IP Print	er(PCR-ID:AD-04)	Product t	уре		TASKalfa	a 3553ci			
	LCA/	LCA/LCIA in units of: 1 Unit				Product weig	ht (kg) 101.01	Package (k	g) 28.37	Weight total (kg)	129.38		
1.	1. Product information (per unit): parts etc. by material and by process/assembly me												
			Bro	eakdown of pi	rimary materials		Math breakdown of parts, which need to apply Processing / Assembly Base Units (Parts B						
		Material na	ime	Weight (kg)	Material name	Weight (kg)	Process name W		ght (kg)	Process name	Weight (kg)		
		Carbon stee	el(kg)	4.00E+01	Rrubber (kg)	6.22E-02	Press molding: Iror	n (kg) 4.1	7E+01 F	Parts assembly (kg)	1.29E+02		
		SUS (kg)	1.75E+00	Paper (kg)	1.14E+01	Press molding:Nonferrous m	netal (kg) 8.0	5E+00				
	+	Cu (kg)	1	6.91E+00	Wood (kg)	1.56E+01	Injection molding	(kg) 3.8	1E+01				
	duct	AI (kg)		1.61E+00	Assembled circuit board (kg)	4.84E+00	Blow molding (kg) 1.9	3E-01				
	8	Other metals	(ka)	3 01E 02	Medium sized motor (kg)	6 58E±00	Glass molding	(ka) 23	05+00				

Ĕ	Other metals (kg)	3.01E-02	Medium-sized motor (kg)	0.30E+00	Glass molding (kg)	2.30E+00		
<u>م</u>	Glass (kg)	2.30E+00						
	Thermoplastics resin (kg)	3.72E+01						
	thermosetting resin (kg)	1.10E+00						
	Subtotal	9.09E+01	Subtotal	3.85E+01				
	Total			1 20E+02	Subtotal	9.04E+01	Subtotal	1 20E+02

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		
mpt	Distribution	Electricity (kWh)	Industrial water (kg)	Heavy oil as fuel (kg)	Gasoline as fuel (kg)		
Insu	Quantity	3.33E+01	2.39E+02	3.04E-01	3.50E-03		
Col	Note						
arge	Classification	Water system					
Disch	Distribution	BOD					
sion/	Quantity	3.31E-03					
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)	Freight by ship (kg·km)						
iti	Conditions	Mass(kg)	Distance (km)	Loading Ratio(%w)	Load(kg · km)	Mass(kg)	Distance (km)	Loading Ratio(%w)	Load(kg · km)
Distrib	Quantity	1.29E+02	1.00E+02	6.73E+01	1.92E+04	1.29E+02	2.60E+03	1.00E+02	3.36E+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	5.91E+02	9.75E-01	1.53E+01	9.15E-02	3.44E+01	6.86E+03	8.32E-01	4.64E+01
duct	Note								
	Classification	Consumption	Consumption	Consumption					
_	Distribution	thermosetting resin (kg)	Paper (kg)	Assembled circuit board (kg)					
	Quantity	9.15E-02	1.90E+01	1.20E-03					
	Note								

Note

4.2 Disposition/Recycle information on consumables and replacement parts

	Classification	Process	Process	Process	Process	Process	Deduction	Deduction	Deduction
	Distribution	Recycle:to copper plate (kg)	Recycle to Thermoplastic pellet (kg)	Recycle:to corrugated cardboard (kg)	Shredding (kg)	Recycle:to cold-rolled steel (kg)	Carbon steel(kg)	Cu (kg)	Thermoplastics resin (kg)
ables	Quantity	1.20E-03	1.53E+01	1.90E+01	3.51E+01	8.32E-01	8.32E-01	1.20E-03	1.53E+01
nab	Note								
Insu	Classification	Deduction							
Co	Distribution	Paper (kg)							
	Quantity	1.90E+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	4.13E+03	4.20E-01	1.69E+01	1.13E+02	4.18E+01	1.83E+01	1.61E+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 metals (kg)
cer	Quantity	3.72E+01	1.14E+01	2.30E+00	4.00E+01	1.75E+00	1.83E+01	1.61E+00	3.01E-02
s	Note								
	Classification	Deduction	Deduction	Deduction					
	Distribution	Glass (kg)	Thermoplastics resin (kg)	Paper (kg)					
	Quantity	2.30E+00	3.72E+01	1.14E+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.