Product Environmental Aspects Declaration

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

🔇 KYOCERA

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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.

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No. AD-16-E824 Date of publication 12/15/2016

' TASKalfa 5052ci

 Making Technology:Electrophotographic Printer (EP)

 Printng Speed: Monoclome 50Pages per minute in A4

 Color
 50Pages per minute in A4

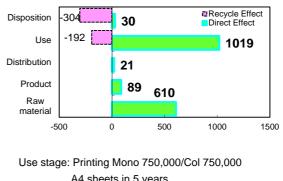
Maximum priting paper: A3 Duplex function: Standard

[The Environmental load for life-cycle]

Consumption and discharge in a life cycle	All the stage sum totals			
Global Warming (CO2 equivalent)	1769kg (1274kg)			
Acidification (SO2 equivalent)	2.69kg (1.7kg)			
Energy resources (crude oil equivalent)	37,450MJ (27,503MJ)			
V Figures in () indicated environmental i	monost including			

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

Warming load CO2 equivalent of each stage[kg]



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 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 □ internal ■external 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-16-E824

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	PCR name	EP & IP Printe	Product type	TASKalfa 5052ci				
	PCR code	AD-04	Product weight (kg)	109.14	Package (kg)	28.29	Weight total (kg)	137.43

	_	_		Life Cycle Stage		Produ	uction				Recycle
10/01	ut iten	~~~			Unit	Raw material	Product	Distribution	Use	Disposition	Effect
11/00	at iten	115						0.005.00	0.475.04	0.055.04	
		Er	nergy C	Consumption	MJ	1.07E+04	1.70E+03	2.83E+02	2.47E+04	8.35E+01	-9.95E+03
	-			' 	Mcal	2.55E+03	4.05E+02	6.76E+01	5.90E+03	2.00E+01	-2.38E+03
			urcei	Coal	kg	7.64E+01	1.12E+01	6.60E-04	1.12E+02	2.26E-01	-6.94E+01
			reso	Crude oil (for fuel)	kg	1.08E+02	1.32E+01	6.18E+00	1.94E+02	1.37E+00	-8.84E+01
			ergy	LNG	kg	2.10E+01	5.58E+00	9.54E-02	6.73E+01	1.31E-01	-1.48E+01
			Ë	Uranium content of an ore	kg	2.03E-03	7.54E-04	4.48E-08	6.40E-03	1.53E-05	-6.47E-04
	uo			Crude oil (for material)	kg	3.47E+01	0	0	6.96E+01	0	-6.01E+01
	pti	S		Iron content of an ore	kg	4.70E+01	0	0	1.18E+01	0	-5.14E+01
	Ę	Š		Cu content of an ore	kg	3.95E+00	0	0	1.03E-01	0	-5.59E+00
	ารเ	N		Al content of an ore	kg	3.72E+00	0	0	2.81E+00	0	-5.94E+00
	ō	Exhaustible resources	Se	Ni content of an ore	kg	2.94E-01	0	0	1.92E-01	0	-4.86E-01
	e		lo	C content of an ore	kg	4.12E-01	0	0	2.64E-01	0	-6.76E-01
	LC I	lö	no	Mn content of an ore	kg	2.58E-01	0	0	9.27E-02	0	-1.13E-01
	ŝ	nsi	resources	Pb content of an ore	kg	2.17E-01	0	0	8.41E-03	0	-4.59E-01
	Impact by Resource Consumption	ha		Sn content of an ore	kg	0	0	0	0	0	0
	2	X	Mineral	Zn content of an ore	kg	2.15E+00	0	0	9.72E-02	0	-4.54E+00
	É.	ш	۸ir	Au content of an ore	kg	0	0	0	0	0	0
	act		~	Ag content of an ore	kg	0	0	0	0	0	0
es	ä			Silica Sand	kg	3.88E+00	0	0	2.30E-01	0	-3.50E+00
j/s	-			Halite	kg	2.92E+01	0	0	5.57E+00	1.70E-02	-3.19E+01
nai				Limestone	kg	1.02E+01	0	0	2.49E+00	1.10E+00	-9.26E+00
a				Natural soda ash	kg	3.04E-01	0	0	8.20E-03	0	-1.84E-01
- Co				Wood	kg	5.88E+01	0	0	1.24E+02	0	-1.64E+02
Inventory anaiyses				Water	kg	5.30E+04	8.94E+03	5.01E-01	8.69E+04	1.88E+02	-2.69E+04
Ň	ant			CO2	kg	5.96E+02	8.86E+01	2.01E+01	9.97E+02	3.02E+01	-4.83E+02
-	Ĕ		ø	Sox	kg	4.70E-01	6.70E-02	1.04E-02	7.32E-01	1.81E-02	-4.53E-01
	ror		Jer	Nox	kg	7.71E-01	5.69E-02	6.42E-02	1.01E+00	8.15E-02	-7.63E-01
	Š		р р	N2O	kg	5.12E-02	1.36E-03	3.81E-03	8.01E-02	1.20E-04	-4.79E-02
	9 9		Atmosphere	CH4	kg	5.36E-03	2.02E-03	1.20E-07	1.70E-02	4.10E-05	-1.61E-03
	t		¥tr	CO	kg	9.22E-02	1.30E-02	1.06E-02	1.70E-01	2.18E-02	-9.25E-02
	e to		0	NMVOC	kg	1.05E-02	3.95E-03	2.34E-07	3.34E-02	8.03E-05	-3.16E-03
	Irge		-	CxHy	kg	2.40E-02	4.13E-04	2.38E-03	2.20E-02	9.84E-04	-2.27E-02
	cha	L		Dust	kg	7.99E-02	3.37E-03	6.87E-03	6.31E-02	3.84E-03	-7.82E-02
	Disc	tem	Jain	BOD	kg	-	2.58E-03	-	-	-	-
	Impact by Emission/Discharge to the environment	to Water system	domain	COD	kg	-	-	-	-	-	-
	sio	ater	Water	N total	kg	-	-	-	-	-	-
	mis	Ň	Na	P total	kg	-	-	-	-	-	-
	ш	to	Q	SS	kg	-	-	-	-	-	-
	by		system	Unspecified Solid Waste	kg	4.92E+00	1.80E-02	0	3.75E+01	5.56E-04	-7.77E+00
	act		Isy	Slag	kg	1.92E+01	0	0	3.89E+00	0	-2.11E+01
	dm		Soil	Sludge	kg	6.74E+00	0 5.27E-04	0 3.13E-08	6.01E+00 4.46E-03	0 1.07E-05	-1.27E+01
-			9	Low level radio-active waste	kg	1.42E-03			4.46E-03 3.99E+02		-4.53E-04
assessment	by Res			Energy resources (crude oil equivalent)	kg	1.99E+02 1.26E+03	3.33E+01 0	6.29E+00 0	3.99E+02 2.43E+02	1.80E+00 0	-1.56E+02 -2.17E+03
ssm	- 12		() ()	Mineral resources (Iron ore equivalent)	kg		-	-		-	
ses	virorma		here	Global Warming (CO2 equivalent)	kg	6.10E+02	8.91E+01	2.11E+01	1.02E+03	3.02E+01	-4.95E+02
as	de to en		dsou	Acidification (SO2 equivalent)	kg	1.01E+00	1.07E-01	5.53E-02	1.44E+00	7.51E-02	-9.87E-01
Impact :	(Discha		Atn	Ozone Depletion (CFC-11 equivalent)	kg	0	0	0	0	0 2.00E-03	0
npś	Drimin		to .	Photochemical Oxidant	kg	4.67E-02	3.22E-03	3.75E-03	4.86E-02	2.00E-03	-4.24E-02
-	ب ا ۳			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 750,000 sheets monochrome printing and 750,000 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-16-E824



	PCR name		EP & IP Print	er (PCR-ID:AD-04)	Product t	уре			TA	SKalfa !	5052ci	
LCA	LCA/LCIA in units of:		1 Unit F		Product weig	ght (kg) 109.14 Packa		Packag	e (kg)	28.29	Weight total (kg)	137.43
1. Prod	uct information (p	er unit): p	arts etc. by	material and by process/a	ssembly m	ethod						
		Breakdown of primary materials							n need to ap	ply Proces	sing / Assembly Base Un	its (Parts B, C)
	Material name		Weight (kg)	Material name	Weight (kg)	P	Process name		Weight (k	g)	Process name	Weight (kg)
	Carbon steel(kg)		3.78E+01	Rrubber (kg)	6.39E-02	Press	Press molding: Iron (kg)		3.96E+0	1 Pa	rts assembly (kg)	1.37E+02
	SUS (kg)		1.86E+00	Paper (kg)	1.94E+01	Press molding:Nonferrous metal (kg)		ietal (kg)	8.89E+0	0		
÷.	Cu (kg)		6.56E+00	Wood (kg)	1.56E+01	Inject	Injection molding (kg)		3.93E+0	1		
duct	AI (kg)		2.97E+00	Assembled circuit board (kg)	4.83E+00	Blo	w molding (kg)	1.63E-0	1		
0	Other metals	(kg)	3.01E-02	Medium-sized motor (kg)	6.59E+00	Gla	ss molding	(kg)	2.19E+0	0		
ā	Glass (kg)	2.19E+00									
	Thermoplastics re	esin (kg)	3.90E+01									
	thermosetting rea	sin (kg)	5.42E-01									
	Subtotal		9.09E+01	Subtotal	4.66E+01							
			Total		1.37E+02		Subtotal		9.02E+0	1	Subtotal	1.37E+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)		
Consumpt	Quantity	7.04E+01	4.78E+02	6.07E-01	6.99E-03		
Co	Note						
arge	Classification	Water system					
Disch	Distribution	BOD					
Emission/	Quantity	2.58E-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	1.37E+02	1.00E+02	7.15E+01	1.92E+04	1.37E+02	2.60E+03	1.00E+02	3.57E+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	1.48E+03	5.87E+00	3.00E+01	2.06E-01	1.01E+02	2.03E+04	1.03E+01	2.78E+00
	Note								
<u>т</u>	Classification	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption
roduct	Distribution	Carbon steel(kg)	SUS (kg)	Cu (kg)	Al (kg)	Other metals(kg)	Thermoplastics resin (kg)	thermosetting resin (kg)	Rrubber (kg)
Proc	Quantity	1.08E+01	1.21E+00	1.02E-01	2.65E+00	3.01E-02	9.19E+01	7.34E-01	5.02E-02
	Note								
	Classification	Consumption	Consumption	Consumption					
	Distribution	Paper (kg)	Assembled circuit board (kg)	Medium-sized motor (kg)		2			
	Quantity	5.75E+01	3.31E-01	1.36E-01		2			
	Note								

Note

4.2 Disposition/Recycle information on consumables and replacement parts

	Classification	Process	Process	Process	Process	Process	Process	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)	Recycle:to Aluminum plate (kg)	Carbon steel(kg)	SUS (kg)
les	Quantity	5.68E-01	2.95E+01	5.75E+01	1.02E+02	1.21E+01	2.65E+00	1.08E+01	1.21E+00
mabl	Note								
su	Classification	Deduction	Deduction	Deduction	Deduction	Deduction			
Con	Distribution	Cu (kg)	AI (kg)	Other metals(kg)	Thermoplastics resin (kg)	Paper (kg)			
-	Quantity	5.68E-01	2.65E+00	3.01E-02	2.95E+01	5.75E+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	1.47E+04	6.60E-01	1.70E+01	1.21E+02	3.97E+01	1.80E+01	2.97E+00
	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)	Other metals (kg)
cer	Quantity	3.90E+01	1.94E+01	2.19E+00	3.78E+01	1.86E+00	1.80E+01	2.97E+00	3.01E-02
s	Note								
	Classification	Deduction	Deduction	Deduction					
	Distribution	Thermoplastics resin (kg)	Paper (kg)	Glass (kg)					
	Quantity	2.19E+00	3.90E+01	1.94E+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.