Product Environmental Aspects Declaration

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



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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.

TASKalfa 6003i

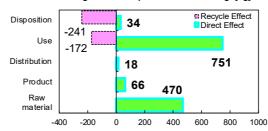
Making Technology:Electrophotographic Printer (EP)
Printng Speed: Monoclome 60Pages per minute in A4
Maximum priting paper: A3
Duplex function: Standard

[The Environmental load for life-cycle]

Consumption and discharge in a life cycle	All the stage sum totals
Global Warming (CO2 equivalent)	1339kg (926kg)
Acidification (SO ₂ equivalent)	2.00kg (1.29kg)
Energy resources (crude oil equivalent)	27,589MJ (19,532MJ)

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

Warming load CO₂ equivalent of each stage[kg]



Use stage: Printing Mono 2,160,000

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.
- 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.
- 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

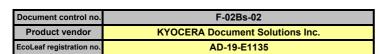
PCR review was conducted by : PCR Deliberation Committee, January 01,2008, Name of reprentative : Youji Uchiyama, Independent verification of the declaration and data, according to ISO14025 ☐ internal ■ external Third party verifier: < name of the third party verifier *> Hiroo Sakazaki

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)





PCR name	EP and IJ Printer		Product type	TASKalfa 6003i			
PCR code	AD-04	Product weight (kg)	88.81	Package (kg)	28.37	Weight total (kg)	117.18

Ray material Product		_			Life Cycle Stage	1.1-24	Produ	uction	Distribustion	Una	Discontinu	Recycle
Second S	In/Ou	ut iten	ns			Unit	Raw material	Product	Distribution	Use	Disposition	
Could (If fue) Ng 6.124-01 6.264-01 7.092-01 2.24-01 6.562-01 7.092-01 2.24-01 6.562-01 7.092-01 2.24-01 6.562-01 7.092-01 2.24-01 6.562-01 7.092-01 2.24-01 6.562-01 7.092-01 7.0						MJ	8.35E+03	1.21E+03	2.44E+02	1.77E+04	1.02E+02	-8.06E+03
Truche oil (flor fuel) Right Signature of the state of t			Er	nergy C	consumption	Mcal	1.99E+03	2.90E+02	5.84E+01	4.22E+03	2.43E+01	-1.92E+03
No.				\$	Coal	ka	6.12E+01	8.28E+00	5.70E-04	9.02E+01	2.24E-01	-6.65E+01
Value Valu				inose	Crude oil (for fuel)	kg	8.24E+01	9.66E+00	5.34E+00	1.38E+02	1.79E+00	-6.87E+01
Second Figure F				96			1.53E+01	4.14E+00	8.24E-02	4.72E+01	1.37E-01	-9.94E+00
Trude oil (form aterial) kg 3.04E+01 0 0 0.490E+01 0 -4.74E+01 0 -5.85E±01 1 0 -5.85E±				Ener	Uranium content of an ore		1.56E-03	5.60E-04	3.87E-08	4.45E-03	1.52E-05	-5.16E-04
Limestone		_			Crude oil (for material)		3.04E+01	0	0	4.90E+01		-4.74E+01
Limestone		igi	w		Iron content of an ore	kg	4.34E+01	0	0	2.19E+01	0	-5.85E+01
Limestone		Ę	ë		Cu content of an ore	kg	3.61E+00	0		1.92E-01		-5.09E+00
Limestone		ns	ă		Al content of an ore	kg	1.48E+00	0		1.96E+00		-2.89E+00
Limestone		o	SS	S	Ni content of an ore	kg	2.35E-01	0	0	4.30E-01	0	-6.64E-01
Limestone		O	9	Ö	C content of an ore	kg						-9.20E-01
Limestone		ည	ple	怘	Mn content of an ore	kg	2.34E-01	0		1.83E-01		
Limestone		Inc	ısti	esc	Pb content of an ore	kg	2.01E-01			1.58E-02		-4.22E-01
Limestone		esi	าลเ	=								
Limestone		Œ.	×	ers								
Limestone		ð	Ш	≟	Au content of an ore							
Limestone		ıct		2		kg						
Limestone	S	ğ										
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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.

- A. Exponential notation, after the decimal point to two, should be used.
- B. Indicate "O" 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 2,160,000 sheets monochrome printingg 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 qualitative and quantitative data collected in Japan.

Product data sheet

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Document control no.	F-03s-02
Product vendor	KYOCERA Document Solutions Inc.
EcoLEaf registration no.	AD-19-E1135



PCR name	EP & IP Printer (PCR-ID:AD-04)	Product type	TASKalfa 6003i				
LCA/LCIA in units of:	1 Unit	Product weight (kg)	88.81	Package (kg)	28.37	Weight total (kg)	117.18

1. Product information (per unit): parts etc. by material and by process/assembly method

	Bre	eakdown of p	rimary materials		Math breakdown of parts, which	ch need to apply	Processing / Assembly Base Ur	nits (Parts B, C)
	Material name	Weight (kg)	eight (kg) Material name		Process name	Weight (kg)	Process name	Weight (kg)
	Carbon steel(kg)	3.52E+01	Rrubber (kg)	5.21E-02	Press molding:Iron (kg)	3.67E+01	Parts assembly (kg)	1.17E+02
	SUS (kg)	1.48E+00	Paper (kg)	1.13E+01	Press molding:Nonferrous metal (kg)	7.28E+00		
	Cu (kg)	6.47E+00	Wood (kg)	1.56E+01	Injection molding (kg)	3.48E+01		
roduct	Al (kg)	9.12E-01	Assembled circuit board (kg)	3.58E+00	Blow molding (kg)	7.54E-02		
2	Other metals (kg)	3.01E-02	Medium-sized motor (kg)	5.89E+00	Glass molding (kg)	1.81E+00		
<u> </u>	Glass (kg)	1.81E+00						
	Thermoplastics resin (kg)	3.39E+01						
	thermosetting resin (kg)	9.84E-01						
	Subtotal	8.07E+01	Subtotal	3.64E+01				
		Total		1.17E+02	Subtotal	8.06E+01	Subtotal	1.17E+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.

nption	Classification	Energy	Material	Energy	Energy			
	Distribution	Electricity (kWh)	Industrial water (kg)	Heavy oil as fuel (kg)	Gasoline as fuel (kg)			
Consum	Quantity	3.28E+01	2.39E+02	3.04E-01	3.50E-03			
S	Note							
arge	Classification	Water system						
Disch	Distribution	BOD						
]/wois	Quantity	2.91E-03				•		•
Emis	Note	•			·	•		

Note

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

Б Б	Means of transportation	Diesel truck:10 ton (kg·km)	Freight by ship (kg·km)						
買	Conditions	Mass(kg)	Distance (km)	Loading Ratio(%w)	Load(kg·km)	Mass(kg)	Distance (km)	Loading Ratio(%w)	Load(kg·km)
strib	Quantity	1.17E+02	1.00E+02	6.09E+01	1.92E+04	1.17E+02	2.60E+03	1.00E+02	3.05E+05
Ĕ	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)	Press molding:Iron (kg)	Press molding:Nonferrous metal (kg)
	Quantity	9.89E+02	1.38E+00	2.24E+01	1.33E-01	8.67E+01	2.52E+04	2.18E+01	2.15E+00
	Note								
	Classification	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption
quet	Distribution	Carbon steel(kg)	SUS (kg)	Cu (kg)	Al (kg)	Other metals (kg)	Thermoplastics resin (kg)	thermosetting resin (kg)	Rrubber (kg)
Prod	Quantity	1.99E+01	2.72E+00	2.43E-01	1.82E+00	9.03E-02	6.49E+01	1.72E+00	8.97E-02
_	Note								
	Classification	Consumption	Consumption	Consumption					
	Distribution	Paper (kg)	Assembled circuit board (kg)	Medium-sized motor (kg)					
	Quantity	3.94E+01	2.91E-01	3.94E-01					
	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)
Sel	Quantity	9.28E-01	2.08E+01	3.94E+01	8.57E+01	2.27E+01	1.82E+00	1.99E+01	2.72E+00
nab	Note								
ınsı	Classification	Deduction	Deduction	Deduction	Deduction	Deduction			
Sol	Distribution	Cu (kg)	Al (kg)	Other metals (kg)	Thermoplastics resin (kg)	Paper (kg)			
	Quantity	9.28E-01	1.82E+00	9.03E-02	2.08E+01	3.94E+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	2.24E+04	3.20E-01	1.85E+01	1.01E+02	3.67E+01	1.59E+01	9.12E-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)	Al (kg)	Other metals (kg)
Se	Quantity	3.39E+01	1.13E+01	1.81E+00	3.52E+01	1.48E+00	1.59E+01	9.12E-01	3.01E-02
S	Note								
	Classification	Deduction	Deduction	Deduction					
	Distribution	Glass (kg)	Thermoplastics resin (kg)	Paper (kg)					
	Quantity	1.81E+00	3.39E+01	1.13E+01					
	Note								

Note

6. Others