

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

# 🔇 KYOCERA

ECOSYS P3260dn

http://www.kyoceradocumentsolutions.co.jp/

Contact us KYOCERA Document Solutions Inc. Corporate CSR Division Product Environmental Planning Dep. TEL : +81-6-6764-3760 Making Technology:Electrophotographic Printer(EP) Printng Speed: Monoclome 60Pages per minute in A4 Maximum priting paper: A4 Duplex function: Standard

# [The Environmental load for life-cycle]



 Consumption and discharge in a life cycle
 All the stage sum totals

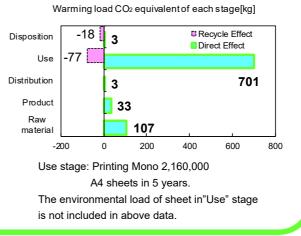
 Global Warming (CO2 equivalent)
 847kg (752kg)

 Acidification (SO2 equivalent)
 1.2kg (1.03kg)

 Energy resources (crude oil equivalent)
 20,458MJ (18,399MJ)

 ※Figures in () indicated environmental impact including

recycle effect \*note3



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 Specification Criteria.

- Visit EcoLeaf website under homepage at http://www.ecoleaf-jemai.jp/eng/pcr.html for detail. 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 Ver3.0.
- 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: Hiroo Sakazaki

Programme operator: Sustainable Management Promotion Organization ecoleaf@sumpo.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.



No.AD-19-E1168 Date of publication 11/15/2019

## 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-E1168

PCR name	EP and IJ print	er	Product type	ECOSYS P3260dn			
PCR code	AD-04	Product weight (kg)	16.94	Package (kg)	3.99	Weight total (kg)	20.93

		_		Life Cycle Stage		Produ	uction				Recycle
In/Or	ut item				Unit	Raw material	Product	Distribution	Use	Disposition	Effect
in/Ot	u nen	ns									
		Er	nerav C	Consumption	MJ	1.99E+03	6.83E+02	4.31E+01	1.77E+04	4.58E+01	-2.06E+03
	_			•	Mcal	4.75E+02	1.63E+02	1.03E+01	4.23E+03	1.09E+01	-4.92E+02
			Irces	Coal	kg	1.14E+01	4.04E+00	1.01E-04	7.37E+01	1.76E-02	-6.60E+00
			resol	Crude oil (for fuel)	kg	2.04E+01	4.99E+00	9.41E-01	1.40E+02	9.54E-01	-2.21E+01
			ergy	LNG	kg	3.80E+00	2.03E+00	1.45E-02	4.82E+01	2.32E-02	-1.84E+00
			ĥ	Uranium content of an ore	kg	3.77E-04	2.74E-04	6.82E-09	4.44E-03	1.19E-06	-8.17E-05
	uc			Crude oil (for material)	kg	8.18E+00	0	0	5.57E+01	0	-1.61E+01
	ptic	ŝ		Iron content of an ore	kg	6.37E+00	0	0	6.63E+00	0	-4.91E+00
	Impact by Resource Consumption	Ð		Cu content of an ore	kg	4.22E-01	0	0	7.04E-02	0	-3.25E-01
	ารเ	Exhaustible resources		Al content of an ore	kg	2.98E-01	0	0	9.60E-01	0	-4.80E-01
	Sor		S	Ni content of an ore	kg	2.35E-02	0	0	7.86E-02	0	-4.09E-02
	0		ĕ	C content of an ore	kg	3.38E-02	0	0	1.09E-01	0	-5.70E-02
	rce	ldi	Mineral resources	Mn content of an ore	kg	3.37E-02	0	0	4.78E-02	0	-1.00E-02
	no	usti		Pb content of an ore	kg	2.36E-02	0	0	5.71E-03	0	-2.64E-02
	es	าลเ		Sn content of an ore	kg	0	0	0	0	0	0
	R R	X		Zn content of an ore	kg	2.32E-01	0	0	5.62E-02	0	-2.59E-01
	ģ			Au content of an ore	kg	0	0	0	0	0	0
	act		2	Ag content of an ore	kg	0	0	0	0	0	0
Se	ů			Silica Sand	kg	4.30E-01	0	0	3.16E-01	0	-1.96E-01
ys(	드			Halite	kg	2.24E+00	0	0	7.03E-01	2.22E-04	-8.74E-01
Jai				Limestone	kg	1.51E+00	0	0	1.50E+00	1.44E-02	-8.55E-01
ar				Natural soda ash	kg	3.17E-02	0	0	2.49E-02	0	-8.47E-03
ory (				Wood	kg	8.64E+00	0	0	7.19E+01	0	-6.77E+01
Inventory anaiyses				Water	kg	9.85E+03	3.36E+03	7.63E-02	5.96E+04	1.36E+01	-4.92E+03
Ne	ent			CO2	kg	1.04E+02	3.28E+01	3.06E+00	6.83E+02	3.48E+00	-9.27E+01
-	Ĕ	Φ		Sox	kg	6.88E-02	2.46E-02	1.58E-03	4.70E-01	3.97E-03	-5.13E-02
	ror		Je	Nox	kg	1.36E-01	2.20E-02	9.77E-03	6.88E-01	4.68E-02	-1.72E-01
	nvi		ğ	N2O	kg	9.44E-03	6.16E-04	5.81E-04	6.61E-02	5.63E-05	-1.04E-02
	e e		Atmosphere	CH4	kg	1.00E-03	1.60E-02	1.82E-08	1.19E-02	3.19E-06	-2.10E-04
	the		ti d	CO	kg	1.37E-02	4.75E-03	1.61E-03	1.16E-01	1.79E-02	-1.06E-02
	to		0	NMVOC	kg	1.96E-03	1.43E-03	3.57E-08	2.32E-02	6.24E-06	-4.10E-04
	rge		÷	CxHy	kg	4.44E-03	2.12E-04	3.62E-04	1.71E-02	9.34E-04	-4.90E-03
	sha			Dust	kg	1.40E-02	1.39E-03	1.05E-03	4.29E-02	3.70E-03	-1.38E-02
	Disc	em.	lain	BOD	kg	-	1.01E-03	-	-	-	-
	Impact by Emission/Discharge to the environment	to Water system	domain	COD	kg	-	-	-	-	-	-
	sio	ter	ter	N total	kg	-	-	-	-	-	-
	nis	Wa	Water	P total	kg	-	-	-	-	-	-
	ш	to	ę	SS	kg	-	-	-	-	-	-
	by		tem	Unspecified Solid Waste	kg	9.69E-01	1.07E-02	0	3.19E+01	7.26E-06	-9.22E-01
	act		sys	Slag	kg	2.49E+00	0	0	2.24E+00	0	-1.81E+00
	npŝ		Soil	Sludge	kg	5.15E-01	0	0	2.06E+00	0	-1.03E+00
	_		<b>b</b>	Low level radio-active waste	kg	2.64E-04	1.91E-04	4.76E-09	3.10E-03	8.31E-07	-5.71E-05
ent	by Res		and a second	Energy resources (crude oil equivalent)	kg	3.53E+01	1.23E+01	9.59E-01	2.81E+02	1.00E+00	-2.92E+01
assessment	ц Ц	4		Mineral resources (Iron ore equivalent)	kg	1.33E+02	0	0	1.23E+02	0	-1.44E+02
ses	rcent		Jere	Global Warming (CO2 equivalent)	kg	1.07E+02	3.33E+01	3.22E+00	7.01E+02	3.49E+00	-9.55E+01
ass	ge to envi	Qzor Ph		Acidification (SO2 equivalent)	kg	1.64E-01	4.00E-02	8.42E-03	9.51E-01	3.67E-02	-1.72E-01
t	ct a			Ozone Depletion (CFC-11 equivalent)	kg	0	0	0	0	0	0
Impact	al micro			Photochemical Oxidant	kg	8.30E-03	1.37E-03	5.71E-04	3.40E-02	1.90E-03	-7.76E-03
5	Dy D			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.

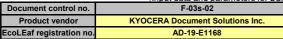
4.Use stage: Based on PCR provision, impact on 2.160,000 sheets monochrome printing by user for five years is considered.

5.Disposal/Recycle: We have calculated on the basis of a performance-based recycle scenario

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## Product data sheet

(Input data and parameters for LCA)





	PCR name EP &			ter(PCR-ID:AD-04)	Product t	уре			E	COSYS	P3260dn	
LC	A/LCIA in units of:			1 Unit		ht (kg)	16.94	Packag	je (kg)	3.99	Weight total (kg)	20.93
1. Pro	Product information (per unit): parts etc. by material and by process/assembly method											
		Bre	eakdown of pi	rimary materials		Math b	reakdown of pa	arts, whic	h need to	apply Pro	cessing / Assembly Base Un	its (Parts B, C)
	Material na	ime	Weight (kg)	Material name	Weight (kg)	P	rocess nam	e	Weight	(kg)	Process name	Weight (kg)
	Carbon stee	l(kg)	5.40E+00	Paper (kg)	3.99E+00	Press	Press molding:Iron (kg)		5.55E-	+00 I	Parts assembly (kg)	2.08E+01
	SUS (kg	)	1.48E-01	Assembled circuit board (kg)	1.05E+00	Press mol	ding:Nonferrous m	ietal (kg)	6.19E	-01		
÷.	Cu (kg)		4.81E-01	Medium-sized motor (kg)	6.63E-01	Injec	tion molding	g (kg)	8.85E-	+00		
duct	Al (kg)		2.27E-01			Blo	w molding (	kg)	4.63E	-02		
2	Glass (kg	g)	6.61E-02			Gla	ss molding	(kg)	6.61E	-02		
<u> </u>	Thermoplastics r	esin (kg)	8.77E+00									
	thermosetting re	esin (kg)	1.19E-01									
	Rrubber (k	(g)	1.82E-02									
	Subtota		1.52E+01	Subtotal	5.70E+00							
			Total		2.09E+01		Subtotal		1.51E-	+01	Subtotal	2.08E+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 SO<sub>2</sub>, NO<sub>2</sub> equivalent.

ion	Classification	Energy	Material	Energy	Energy		
mpti	Distribution	Electricity (kWh)	Industrial water (kg)	Heavy oil as fuel (kg)	Gasoline as fuel (kg)		
_	Quantity	5.34E+01	2.83E+02	4.04E-01	7.85E-03		
Const	Note						
arge	Classification	Water system	Atmosphere				
Disch	Distribution	BOD	CH4				
sion/	Quantity	1.01E-03	1.53E-02				
Emis	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)	Diesel truck:10 ton (kg·km)	Diesel truck:10 ton (kg·km)	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	2.09E+01	1.00E+02	7.16E+01	2.92E+03	2.09E+01	2.60E+03	1.00E+02	5.44E+04
	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	Process	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption
	Distribution	Diesel truck:2 ton (kg·km)	Electricity (kWh)	Industrial water (kg)	Press molding:lron(kg)	Press molding:Nonferrous metal (kg)	Injection molding (kg)	Blow molding (kg)	Glass molding (kg)
	Quantity	1.84E+04	1.04E+03	6.03E+02	6.74E+00	9.70E-01	1.74E+01	6.16E-02	1.86E-01
	Note								
-	Classification	Process	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption
luct	Distribution	Parts assembly (kg)	Carbon steel(kg)	SUS (kg)	Cu (kg)	Al (kg)	Glass (kg)	Thermoplastics resin (kg)	Thermosetting resin (kg)
Produ	Quantity	5.95E+01	6.24E+00	4.97E-01	6.23E-02	9.08E-01	1.86E-01	7.56E+01	3.34E-01
	Note								
	Classification	Consumption	Consumption	Consumption					
	Distribution	Rrubber (kg)	Paper (kg)	Assembled circuit board (kg)					
	Quantity	7.24E-02	3.38E+01	3.74E-01					
	Note								

Note

#### 4.2 Disposition/Recycle information on consumables and replacement parts

	Classification	Process	Process	Process	Process	Process	Process	Process	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)	Recycle:to Glass (kg)	Carbon steel(kg)
les	Quantity	1.98E-01	1.35E+01	3.02E+01	5.93E+01	2.69E+00	3.63E-01	7.46E-02	2.50E+00
mab	Note								
Insu	Classification	Deduction	Deduction	Deduction	Deduction	Deduction	Deduction		
Cor	Distribution	SUS (kg)	Cu (kg)	Al (kg)	Glass (kg)	Thermoplastics resin (kg)	Paper (kg)		
-	Quantity	1.99E-01	1.98E-01	3.63E-01	7.46E-02	1.35E+01	3.02E+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)	Incineration: Industrial waste (kg)	Electricity (kWh)	Shredding (kg)	Recycle:to cold-rolled steel (kg)	Recycle:to copper plate (kg)	Recycle:to Aluminum plate (kg)
	Quantity	1.17E+03	1.72E+04	2.22E-01	2.80E-01	2.09E+01	2.22E+00	8.79E-01	9.08E-02
	Note								
0	Classification	Process	Process	Process	Deduction	Deduction	Deduction	Deduction	Deduction
ari	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)
Scenario	Quantity	3.51E+00	1.59E+00	2.65E-02	2.16E+00	5.93E-02	8.79E-01	9.08E-02	2.65E-02
s	Note								
	Classification	Deduction	Deduction						
	Distribution	Thermoplastics resin (kg)	Paper (kg)						
	Quantity	3.51E+00	1.59E+00						
	Note								
Note									

## 6. Others

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