

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 JEMAI homepage at http://www.jemai.or.jp/ecoleaf_e/ for details.
- 3. 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.

[Supplemental environmental information]

- •This product is assembled at an ISO14001 certified factory.
- •No halogen resin is used for the housing.

PCR review was conducted by : the chair Mr. Hisashi Ishitani, KEIO University at PCR Deliberation Committee in January 1, 2008.

Independent verification of the declaration and data, according to ISO14025:2006 interna certain external Third party verifier and the system auditor: Mr. Shozo Nakamuta.

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 PCR name

Product Environmental Information Data Sheet (PEIDS)

Product type



Document control no.	F-02A-02
Product vendor	Seiko Epson Corporation
EcoLeaf registration no.	AG-10-065

Data Projector

Unit Function DB ver.	2.1
Characterization Factor DB ver.	2.1
EH	I-DM3

Incluit terms Life Cycle Stage Unit Production Distribution Use Disposition Total Incluit terms Energy Consumption Mcal 5.677±02 2.017±02 3.49E±01 4.39E±03 7.09E±00 7.35E±00 Incluit terms Could Interview Mcal 1.35E±02 4.41E±01 8.34E±00 1.03E±03 7.09E±00 7.35E±02 Cuide oil (for fuel) Mg 7.35E±00 6.38E±00 6.37E±01 2.27E±01 6.32E±02 3.44E±08 1.88E±02 3.44E±08 1.88E±02 1.42E±01 0	PC	R			AG-04	Product v	veight (kg)	4	.11	Package (kg	g)	2.8	7	Weight total	l (kg)	6.98		
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under solution Every bit of the bit is and the bit is an					Coal	кg	3.21	_+UU _+00	1.1/E	-00	2.03	E-02	2.43		4.	95E-02	2.0	92701
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Very Part of the second seco					Oranium content of an ore	кд	1.34	E-04	7.91E	-05	1.37	E-06	1.60	E-03	J.	34E-06	1.8	68E-03
Normal Normal Normal Normal Normal Normal Normal Normal					Crude oil (for material)	кд	2.41	=+00	0		3.92	E-02		0		0	2.4	5E+00
Vertex Vertex<					Iron content of an ore	кg	1.06	=+00	0)		0		0	1.0	6E+00
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Normal Normal<	nton		Ren	ewable	Wood	кg	4.70	-+00	0.025	00	4.090	E-01	4.05	0		105:01	5.1	92+00
No No<	nver				water	кg	3.44	-+03	9.0321	-02	4.555	101	1.00	C+04	4.	192+01	2.3	02+04
Vert Sox kg 2.47F-02 6.07E-03 1.68E-03 1.45E-01 3.78E-03 1.82E-03 NDx kg 4.87E-02 6.02E-03 1.42E-02 1.15E-01 7.06E-03 1.91E-06 NDx kg 3.27E-03 4.43E-04 2.61E-04 2.08E-03 9.49E-06 6.06E-03 CH kg 3.27E-03 1.41E-04 3.68E-06 4.43E-03 8.96E-06 6.01E-03 CO kg 4.74E-03 1.41E-04 3.68E-06 4.43E-03 8.96E-06 6.01E-03 NMVOC kg 6.96E-04 4.14E-04 7.18E-06 8.68E-03 1.75E-05 9.81E-03 CH water system Kg 4.62E-03 2.98E-04 1.17E-03 6.21E-03 3.74E-04 1.27E-02 Dust kg -	-				CO ₂	kg	3.51	E+01	9.45E+	-00	2.64E	E+00	1.90	E+02	7.	31E+00	2.4	5E+02
V Markey Nox kg 4.87E-02 6.02E-03 1.42E-02 1.15E-01 7.06E-03 9.949E-06 6.06E-03 V Markey kg 3.27E-03 4.43E-04 2.61E-04 2.08E-03 9.49E-06 6.06E-03 CO kg 3.36E-04 2.11E-04 3.68E-06 4.43E-03 8.99E-06 5.01E-03 NMVOC kg 6.96E-04 4.14E-04 7.18E-06 8.68E-03 1.75E-05 9.81E-03 NMVOC kg 6.96E-04 4.14E-04 7.18E-06 8.68E-03 1.75E-05 9.81E-03 Dust kg 1.50E-03 8.80E-05 3.35E-04 4.53E-04 4.18E-06 2.38E-03 Loware system Moloc kg -<					SOx	kg	2.47	E-02	6.97E	-03	1.68	E-03	1.45	5E-01	3.	78E-03	1.8	2E-01
No No<					NOx	kg	4.87	E-02	6.02E	-03	1.42	E-02	1.15	5E-01	7.	06E-03	1.9	1E-01
V Matrix Matrix CH _a kg 3.56E-04 2.11E-04 3.68E-06 4.43E-03 8.95E-06 5.01E-03 3.96E-02 V Mark V kg 4.74E-03 1.41E-04 7.18E-06 8.68E-03 1.73E-05 9.81E-02 V MVOC kg 4.50E-03 8.80E-05 3.35E-04 4.53E-04 4.18E-06 2.38E-03 1.7E-03 6.21E-03 3.74E-04 1.27E-02 Dust kg 4.62E-03 2.98E-04 1.17E-03 6.21E-03 3.74E-04 1.27E-02 Dust kg 4.62E-03 2.98E-04 1.17E-03 6.21E-03 3.74E-04 1.27E-02 COD kg -					N ₂ O	kg	3.27	E-03	4.43E	-04	2.61	E-04	2.08	8E-03	9.	49E-06	6.0	6E-03
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$ \begin to the term of the term of t$		arge ent			NMVOC	kg	6.96	E-04	4.14E	-04	7.18	E-06	8.68	E-03	1.	75E-05	9.8	1E-03
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Vert Vert Unspecified Solid Waste kg 3.12E-01 1.23E-03 4.87E-02 0 2.42E+00 2.78E+00 Slag kg 6.29E-01 0 0 0 0 0 1.42E+00 1.42E+01 Judge kg 9.37E-05 5.51E-05 9.59E-07 1.16E-03 2.34E-06 1.31E-03 Vert Vert Energy resources kg 1.22E+01 3.57E+00 7.36E-01 7.17E+01 1.52E-01 8.84E+01 Nineral resources (ron ore equivalent) kg 4.64E+01 0 2.16E-02 0 0 4.64E+01 Og bugge vert to Atmosphere Global Warming (CO ₂ equivalent) kg 3.60E+01 9.58E+00 2.72E+00 1.91E+02 7.31E+00 2.47E+02					SS	kg		-	-		-	-		-		-		
New Processing Stag Stag Kg 6.29E-01 0 0 0 0 0 0 6.29E-01 Studge Kg 1.42E-01 0 0 0 0 0 1.42E-01 0 0 0 0 1.42E-01 0 0 0 0 1.42E-01 1.42E-01 0 0 0 0 1.42E-01 1.42E-01 0 0 0 0 0 1.42E-01 1.42E-01 0 0 0 0 1.42E-01 1.42E-01 0 0 0 0 0 0 0 1.42E-01 1.46E-01					Unspecified Solid Waste	kg	3.12	E-01	1.23E	-03	4.87	E-02		0	2.	42E+00	2.7	8E+00
Number of the sector			to Soi	l system	Slag	kg	6.29	E-01	0		0)		0		0	6.2	9E-01
Visual bit with the problem					Sludge	kg	1.42	E-01	0		0)		0		0	1.4	2E-01
V 000000000000000000000000000000000000					Low level radio-active waste	kg	9.37	E-05	5.51E	-05	9.59	E-07	1.16	6E-03	2.	34E-06	1.3	1E-03
Verture Verture Mineral resources (Iron ore equivalent) kg 4.64E+01 0 2.16E-02 0 0 4.64E+01 Verture o a big or give or equivalent) o a big or equivalent) kg 3.60E+01 9.58E+00 2.72E+00 1.91E+02 7.31E+00 2.47E+02 Acidification (SO ₂ equivalent) kg 5.88E-02 1.12E-02 1.16E-02 2.26E-01 8.72E-03 3.16E-01	ht	source	Exha	austible	Energy resources (crude oil equivalent)	kg	1.22	E+01	3.57E+	+00	7.36	E-01	7.17	E+01	1.	52E-01	8.8	4E+01
Big Big <td>sessmer</td> <td>by Re Consu</td> <td>reso</td> <td>ources</td> <td>Mineral resources (Iron ore equivalent)</td> <td>kg</td> <td>4.64</td> <td>E+01</td> <td>0</td> <td></td> <td>2.16</td> <td>E-02</td> <td></td> <td>0</td> <td></td> <td>0</td> <td>4.6</td> <td>4E+01</td>	sessmer	by Re Consu	reso	ources	Mineral resources (Iron ore equivalent)	kg	4.64	E+01	0		2.16	E-02		0		0	4.6	4E+01
Line Acidification (SO ₂ equivalent) kg 5.88E-02 1.12E-02 1.16E-02 2.26E-01 8.72E-03 3.16E-01	mpact as	nission/ arge to ironment	to Atm	osphere	Global Warming (CO ₂ equivalent)	kg	3.60	E+01	9.58E+	+00	2.72E	E+00	1.91	E+02	7.	31E+00	2.4	7E+02
		by En Disch the envi	10 / 111		Acidification (SO ₂ equivalent)	kg	5.88	E-02	1.12E	-02	1.16	E-02	2.26	E-01	8.	72E-03	3.1	6E-01

Notes:

I. Stage related

A. "Production" stage is intended for two sub-stages listed below.

"Raw material" production: consists of mining, transportation and raw material production.
 "Product" production: consiste 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).

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 resurces 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 Atmostphere, 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". D. Row total of the data is automatically calculated, excluding a row includes "-" item. Row total of such is presented as a blank (no data).

Note: BGD for material production are for production from mineral ore. Those data do not include reclaiming processes like recovery from scrap.

Explanation: 1."Production" stage

According to the PCR, glass coating processing is calculated by using the basic unit of the parts assembly.

Product data sheet

Document control no.	F-03-02
Product vendor	Seiko Epson Corporation
EcoLEaf registration no.	AG-10-065



PCR name	Data	Projector (PCR-ID:	AG-04)	Product type	EH-DM3				
LCA/LCIA in units of:	1	Product weight (kg)	4.11	Package (kg)	2.87	Weight total (kg)	6.98		

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

	Break	down of primary ma	aterials		Math breakdown of parts, which need	to apply Processin	g / Assembly Base l	Jnits (Parts B, C)
	Material name	Weight (kg)	Material name	Weight (kg)	Process name	Weight (kg)	Process name	Weight (kg)
	Steel	7.78E-01	Paper	2.19E+00	Press molding: Iron	8.18E-01	Parts assembly	2.15E+00
	Stainless steel	3.99E-02	Semiconductor substrate	3.12E-01	Press molding: Nonferrous meta	2.07E-01		
Ħ	Aluminum	6.27E-02	Battery	3.58E-02	Injection molding	2.90E+00		
roduc	Other metals	1.44E-01	Medium-sized motor	2.15E-01	Glass molding	3.08E-01		
<u>а</u>	Thermoplastic resin	2.74E+00			Glass coarting	3.08E-01		
	Thermosetting resin	1.32E-01						
	Rubber	2.94E-02						
	Glass	3.08E-01						
	Subtotal	4.23E+00	Subtotal	2.75E+00				
		6.98E+00	Subtotal	4.54E+00	Subtotal	2.15E+00		

Notes: The mass of the material which can be classified in every material and have no Basic Units is proportionally distributed by the mass of each material group.

2. Production site information (per unit): Consumption and discharge/emission for production/processing/assembly within the site.

SO_x and NO_x should be indicated in SO₂, NO₂ equivalent.

ion	Classification	Energy	Energy	Energy	Material			
Consumpt	Distribution	Electricity (kwh)	Diesel oil as fuel (kg)	LNG(kg)	Clean water (kg)		
	Quantity	1.66E+01	3.74E-02	9.35E-02	7.51E+01			
	Note							
> 0	Classification	Water system						
ion	Distribution	Sewage						
SS	Distribution	processing (kg)						
Emi	Quantity	7.51E+01						
	Note							

Notes:

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

tion	Means of transportation	Diesel tru	ck:10 ton	Diesel truck:4 ton		Freight b	y ship	Used transpo Diesel tr		
ibu	Conditions	Loading Ratio (%w)	Load (kg · km)	Loading Ratio (%w)	Load (kg·km)	Loading Ratio (%w)	Load (kg·km)	Loading Ratio (%w)	Load (kg·km)	
str	Quantity	45%	7.02E+03	69%	1.26E+03	-	2.09E+04	62%	2.61E+01	
ā	Note	Distance	=455km	Distance=1	125km	Distance=	3000km	Distanc	e=60km	
ns	Classification	Materials		Process	Process	: Disposition				
umptior and sions/di	Distribution	Thermoplastic resin (kg)	Paper (kg)	Injection molding (kg)	Shredding (kg)	Incineration to landfill (as ash) (kg)				
onsi niss	Quantity	3.94E-02	2.30E-01	3.94E-02	2.69E-01	2.69E-01				
о р	Note		Transportation p	oarts for traffic trans	portation					

Notes: The land and marine transportation load from an overseas manufacture site to Japan are added up.

The transportation distance in Japan is calculated on the basis of 500 km that are the prescription value of PCR.

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

roduct	Classification	Energy				
	Distribution	Electricity (kwh)				
	Quantity	4.57E+02				
₽.	Note					

Notes: According to the PCR, the conditions are as follows:

Use mode:

1)Condition during the usage.: Operating/waiting 3.5hr/day, Days of utilization in an year 100day/yr, •High Brightness mode 2)Condition during the OFF.:Power Cable is plugged out while not using

3)Usage periods: 5 vears

5. Disposition/Recycle stage information (per product): process method and scenarios

Jario	Classification	Diesel tr	uck:4 ton	Process	Process	Process		
					Incineration	Landfill:		
	Distribution	Loading Ratio (%w)	Load (kg·km)	Shredding (kg)	to landfill	General waste		
cer					(as ash) (kg)	(kg)		
õ	Quantity	62%	6.75E+02	6.98E+00	5.40E+00	1.58E+00		
	Note	Distance=60km						

Notes These figures in this table mean the environmental burden when products are disposed.