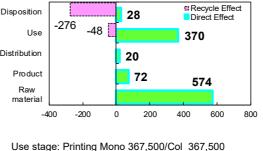


Parts located at of top of Main body is document feeder(DP-7110) as optional equipment. It isn't included in the range of calculation.



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,

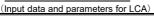
2.Production stage: Environmental impacts on main product, toner supplied with and drum are included in this stage. Production of main product is included as China production. Toner and drum are included as Japan production. 3.Transportation stage: Marine transport distance of a main product is 2,600km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