

Product Environmental Aspects Declaration



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

No. AD-17-E901

Date of publication
May/15/2017

RICOH
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MP 2555SPG

【 Part # 417797 】

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1. **Printing Process** : Electrophotography (EP)
2. **Color** : Monochrome
3. **Print Speed** : 25 prints/minute (Letter / A4, LEF)
4. **Maximum Paper Size** : 12" x 18"
5. **Functions included in LCA** : Automatic Reversing Document Feeder, Automatic Duplexing Unit

Use stage conditions:

Period of use : 5 years, Amount of use : 360,000 pages

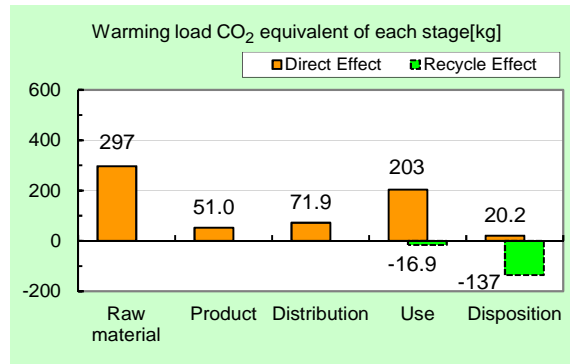
※ The warming load of the use stage does not include environmental impact originated from printing paper, as specified in the PCR.



Environment Contact:
RICOH Company, Ltd.
Corporate Communication Center
email : envinfo@ricoh.co.jp

Consumption and discharge in a life cycle	All the stage sum totals
Global Warming (CO ₂ equivalent)	643kg (489kg)
Acidification (SO ₂ equivalent)	1.12kg (0.947kg)
Energy resources (crude oil equivalent)	12.1GJ (8.81GJ)

※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 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]

- Certified regulations: International Energy Star Program, EU RoHS.
- This product and its main components such as photoreceptor, toner, and carrier are produced in our factories certified to ISO14001 management system standard.

PCR review was conducted by: PCR Deliberation Committee, January 01, 2008, Name of representative: Youji Uchiyama, University of Tsukuba, Graduate School

Independent verification of the declaration and data, according to ISO14025 internal external

Third party verifier * : Kazuo Naito, system certification auditor

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 data sheet

(Input data and parameters for LCA)



Document control no.	F-03s-02
Product vendor	RICOH COMPANY, LTD.
EcoLEaf registration no.	AD-17-E901

PCR name	EP and IJ printer (PCR-ID : AD-04)	Product type	MP 2555SPG [Part # 417797]				
LCA/LCIA in units of:	1 product	Product weight (kg)	71.0	Package (kg)	15.9	Weight total (kg)	86.9

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

Product	Breakdown of primary materials				Math breakdown of parts, which need to apply Processing / Assembly Base Units (Parts B, C)			
	Material name	Weight (kg)	Material name	Weight (kg)	Process name	Weight (kg)	Process name	Weight (kg)
Product	Stainless steel	1.22E+00	Thermosetting resin	9.42E-01	Press molding: Iron (kg)	3.57E+01	Parts assembly (kg)	7.04E+01
	Aluminum	6.21E-01	Wood	6.90E+00	Press molding: Nonferrous metal (kg)	2.90E+00		
	Other metals	2.28E+00	Lubricant	1.12E-02	Injection molding (kg)	3.00E+01		
	Thermoplastic resin	2.98E+01	Electronic circuit board	1.16E+00	Glass molding (kg)	1.87E+00		
	Ordinary steel	3.48E+01						
	Paper	7.41E+00						
	Glass	1.61E+00						
	Rubber	2.51E-01						
	Subtotal	7.79E+01	Subtotal	9.02E+00				
Total			8.69E+01	Subtotal	7.04E+01	Subtotal	7.04E+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 SO₂, NO₂ equivalent.

Consumption	Classification	Energy	Material	Energy	Energy	Material	Energy		
	Distribution	Electricity (kWh)	Clean water (kg)	Furnace urban gas (13A) (m ³)	Kerosene as fuel (kg)	Industrial water (kg)	Furnace LNG (kg)		
Quantity	2.13E+01	9.64E+01	3.47E-01	1.23E-01	3.18E+02	7.02E-03			
Note									
Emission/Discharge	Classification	Water system							
	Distribution	Sewage processing (kg)							
Quantity	4.34E+02								
Note									

Note

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

Distribution	Means of transportation	Diesel truck: 20 ton (kg·km)	Diesel truck: 20 ton (kg·km)	Diesel truck: 20 ton (kg·km)	Diesel truck: 20 ton (kg·km)	Freight by ship (kg·km)	Freight by ship (kg·km)	Freight by ship (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	8.69E+01	1.28E+03	4.15E+01	2.67E+05	8.69E+01	1.16E+04	1.00E+02	1.01E+06	
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

Product	Classification	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption
	Distribution	Stainless steel plate (kg)	Aluminum plate (kg)	Glass (kg)	Styrene-butadiene rubber (SBR) (kg)	Copper plate (kg)	Zinc (kg)	Corrugated cardboard (kg)	Lubricant (kg)
Quantity	8.02E-03	1.46E-01	2.27E-04	9.53E-02	1.43E-01	1.10E-04	3.01E+00	2.64E-04	
Note									
Product	Classification	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption	Condition	Consumption
	Distribution	ABS (kg)	PA66 (Polyamide 66) (kg)	Polycarbonate (kg)	Polycarbonate-ABS (70/30) (kg)	High density polyethylene (kg)	Low density polyethylene (kg)	Diesel truck: 20 ton (kg·km)	PET (kg)
Quantity	7.98E-02	6.41E-04	3.70E-02	2.23E-01	3.62E+00	2.36E-01	2.64E+04	9.83E+00	
Note									
Product	Classification	Consumption	Consumption	Consumption	Consumption	Condition	Consumption	Consumption	Consumption
	Distribution	POM (polyacetal) (kg)	Polypropylene (kg)	Polystyrene (kg)	Epoxy resin (EP) (kg)	Freight by ship (kg·km)	Expandable hard polyurethane (Hard) (kg)	Expandable soft polyurethane (for automobile) (kg)	Unsaturated polyester (UP) (kg)
Quantity	4.43E-01	7.50E-04	1.19E+00	2.48E-03	1.49E+05	5.47E-03	3.97E-03	1.87E-02	
Note									
Product	Classification	Consumption	Consumption	Consumption	Condition	Consumption	Consumption	Consumption	Consumption
	Distribution	Electroplated steel Plate (kg)	Cold-Rolled steel plate (kg)	Press molding: Iron (kg)	Diesel truck: 20 ton (kg·km)	Press molding: Nonferrous metal (kg)	Injection molding (kg)	Glass molding (kg)	Parts assembly (kg)
Quantity	4.79E-01	2.03E+00	1.88E+00	1.30E+03	2.90E-01	5.87E+00	9.55E-02	8.13E+00	
Note									

Product	Classification	Condition	Energy	Energy	Energy	Material	Energy	Material	Condition
	Distribution	Freight by ship (kg·km)	Electricity (kWh)	Furnace urban gas (13A) (m ³)	Kerosene as fuel (kg)	Clean water (kg)	Furnace LNG (kg)	Industrial water (kg)	Diesel truck: 20 ton (kg·km)
	Quantity	7.30E+03	6.19E+01	6.93E-01	2.46E-01	2.50E+01	9.83E-02	1.03E+01	1.67E+04
	Note								
	Classification	Water system	Consumption	Consumption	Condition				
	Distribution	Sewage processing (kg)	Electricity (kWh)	Gasoline as fuel (kg)	Freight by ship (kg·km)				
	Quantity	7.54E+01	2.18E+02	2.20E+00	9.43E+04				
Note									

Note

4.2 Disposition/Recycle information on consumables and replacement parts

Consumables	Classification	Process	Process	Process	Process	Process	Process	Process	Process
	Distribution	Landfill: Industrial waste (kg)	Incineration to landfill (as ash) (kg)	Diesel truck: 4 ton (kg·km)	Shredding (kg)	Sorting: Iron (by magnetic force) (kg)	Sorting: Nonferrous metal (by eddy current with wind force) (kg)	Sorting: Plastics (by relative density difference in water) (kg)	Recycle: to Glass (kg)
	Quantity	2.06E+00	3.01E+00	2.91E+02	9.75E+00	9.75E+00	7.94E+00	7.66E+00	2.27E-04
	Note								
	Classification	Process	Process	Process	Process	Deduction	Deduction	Deduction	Deduction
	Distribution	Recycle: to cold-rolled steel (kg)	Recycle: to Aluminum plate (kg)	Recycle: to copper plate (kg)	Recycle: to Thermoplastic pellet (kg)	Glass (kg)	Cold-Rolled steel plate (kg)	Aluminum plate (kg)	Copper plate (kg)
	Quantity	1.81E+00	1.40E-01	1.38E-01	5.60E+00	2.23E-04	1.81E+00	1.40E-01	1.38E-01
	Note								
	Classification	Deduction	Process						
	Distribution	Polystyrene (kg)	Diesel truck: 10 ton (kg·km)						
Quantity	5.60E+00	7.80E+03							
Note									

Note

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

Scenario	Classification	Process	Process	Process	Process	Process	Process	Deduction	Process
	Distribution	Landfill: Industrial waste (kg)	Shredding (kg)	Incineration: Industrial waste (kg)	Incineration to landfill (as ash) (kg)	Diesel truck: 10 ton (kg·km)	Diesel truck: 4 ton (kg·km)	High density polyethylene (kg)	Sorting: Iron (by magnetic force) (kg)
	Quantity	4.09E+00	8.10E+01	2.01E+00	1.22E+01	6.48E+04	5.09E+02	7.50E-01	6.98E+01
	Note								
	Classification	Process	Process	Process	Process	Process	Process	Process	Deduction
	Distribution	Sorting: Nonferrous metal (by eddy current with wind force) (kg)	Sorting: Plastics (by relative density difference in water) (kg)	Recycle: to Glass (kg)	Recycle: to cold-rolled steel (kg)	Recycle: to Aluminum plate (kg)	Recycle: to copper plate (kg)	Recycle: to Thermoplastic pellet (kg)	Glass (kg)
	Quantity	3.62E+01	3.35E+01	1.61E+00	3.36E+01	5.80E-01	3.21E+00	2.91E+01	1.58E+00
	Note								
	Classification	Deduction	Deduction	Deduction	Deduction				
	Distribution	Cold-Rolled steel plate (kg)	Aluminum plate (kg)	Copper plate (kg)	Polystyrene (kg)				
Quantity	3.36E+01	5.80E-01	3.21E+00	2.83E+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.