

## EcoLeaf Type III Environmental Declaration (EPD)

## Japan EPD Program by SuMPO

https://ecoleaf-label.jp/

Sustainable Management Promotion Organization

14-8, Uchikanda 1-chome, Chiyoda-ku, Tokyo Japan

Registration number : JR-AI-23286E-A



## SHARP

Sharp Corporation DIGITAL FULL COLOR MULTIFUNCTIONAL SYSTEM

# **BP-90C80 (US)**

MULTI BYPASS TRAY and EXIT TRAY CABINET are optional, their impact is not included.

Functional unit	<b>Registration#</b>	JR-AI-23286E-A			
Per unit of product	PCR number	PA-590000-AI-07			
	PCR name	Imaging input and/or output equipment			
System boundary	<b>Publication date</b>	9/28/2023			
■ final products □intermediate products	Verification date	9/19/2023			
Raw material acquision, Production, Distribution,	Verification method	Product-by-product			
Use & maintenance, End-of-Life	Verification#	JV-AI-23286			
	<b>Expiration date</b>	9/18/2028			
Main specifications of the product	PCR review was conducted by:				
Model name : BP-90C80	Approval date	4/24/2023			
Marking technologies : Electrophotographic Printer (E	P) PCR review	Masayuki Kanzaki			
Print speed : Monochrome 80prints/minute (A4)	panel chair	Sustainable Management Promotion Organization			
Full-color 80prints/minute (A4)	Third party verifier*				
Maximum Paper Size : A3W	Hiroyuki Nakamura				
Duplex copying : Standard	Independent verification of data & declaration in				
Company Information	accordance with ISO14025				
SHARP CORPORATION		□internal ■external			
Smart Business Solutions BU					
E-mail :ECOLEAF-BS@sharp.co.jp	*Auditor's name is stated if system certification has been performed.				

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1. Results of life cycle impact assessment (LCIA)								
			0%	,209	% 4	0% 60	0% 80	% 100%
Global warming IPCC2013 GWP100a	7,200	kg-CO2eq	2% 19%		<mark>4%</mark>	7	1%	<mark>4%</mark>
Acidification	6.20	kg-SO2eq	19	%	9%	00/	68%	2% -
Resources consumption	1.50	kg-Sbeq			60%	0% -	- 0% 40	
Raw material acquisition Production   Distribution Use & maintenance   End-of-Life Use & maintenance								
Stage Parameter	Unit	Total	Raw materia acquisition		Production	Distribution	Use & maintenance	End-of-Life
Global warming IPCC2013 GWP100a	kg-CO <sub>2</sub> eq	7.2E+03	1.4E+03		1.7E+02	2.6E+02	5.1E+03	2.7E+02
Acidification	kg-SO <sub>2</sub> eq	6.2E+00	1.2E+00		7.1E-02	5.5E-01	4.2E+00	1.5E-01
Resources consumption	kg-Sbeq	1.5E+00	9.0E-01		5.2E-04	1.1E-03	6.1E-01	2.9E-04

2. Life cycle inventory analysis (LCI)					
Parameter		Unit			
Non-renewable material resources	3.6E+02	kg			
Renewable material resources	5.1E+02	kg			

3. Material composition				
Material		Unit		
Steel	1.4E+02	kg		
SUS	5.2E+00	kg		
Aluminium	2.9E+00	kg		
Other metal	2.0E+00	kg		
Plastic	5.2E+01	kg		
Rubber	2.7E-01	kg		
Glass	2.8E+00	kg		
Paper • Wood	2.7E+01	kg		
Circuit Board	5.1E+00	kg		
Others	1.6E+01	kg		

## 5. Additional explanation

- Product destination: North America
- $\cdot$  Calculation method of use stage (scenario)
- Expected usage period: five years
- Estimated number of use : 3,840,000 sheets
- 32 (Jobs/Day) × 100 (Sheets/Job) × 5 (Days/Week) × 4 (Weeks/Month) × 12 (Months/Year) × 5 (Years) = 3,840,000 sheets
- The impact of paper for printing is not included.
- Products selected in the scenario used for inventory calculation : Multifunction device (EP)
- % Calculated according to the ENERGY STAR  $\ensuremath{\mathbb R}$  Ver2.0 program.



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6-1. Supplementary environmental information

Conforms to ENERGY STAR® Program Ver.3.2.(Professional)

Compliant with European RoHS regulations.

· Assembly and production of this product, as well as production of the photoconductor and toner,

which are the main components, are performed at ISO 14001-certified factories.

7. Assumptions of secondary data used

IDEA v2.1.3 and Japan EPD Program by SuMPO Registry data v1.13

8. Remarks

Revised on November 5th, 2024

Correction of broken URL links

- For data quantification, please refer to PCR and Rules on quantification and declaration.

- Comparative assertion is permitted only when Rules on quantification and declaration are satisfied. (Reference URL : https://ecoleaf-label.jp/regulation/)

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## Appendix

The following is a list of the intensity basic units used to calculate the LCA for this product. These intensity basic units can be obtained from the following URL. https://ecoleaf-label.jp/resource/temp/

Raw material acquisition felt and bonded fabrics cork goods paper and machine-made Japanese paper, 4 digit titanium oxide silica gel cyclic intermediates, synthetic dyes and organic pigments, 4 digit melamine resin polyethylene, high density (HDPE) low density polyethylene polystyrene acrylonitrile butadiene styrene resin acrylonitrile butadiene styrene resin, flame retardancy polypropylene methacrylic resin polyamide resin fluorocarbon resin polyethylene terephthalate epoxy resin polyacetal polycarbonate miscellaneous plastic polyimide polybutylene terephthalate polyphenylene ether resin polyphenylene sulfide silicone rubber, compound synthetic rubbers (including synthetic latex), 4 digit ethylene propylene diene terpolymer chloroprene rubber, butadiene organic chemistry industrial products which are not elsewhere classified, 4 digit acrylic long and short fibers packaging material, HDPE bag foamed plastic products (flexible and semi-rigid), 4 digit polyurethane, flexible polyurethane, foamed rigid polyurethane, foamed miscellaneous rubber belts ordinary steel, final, 4 digit ordinary steel cold rolled steel sheet and strips electrogalvanized steel sheet special steel pipes and tubes carbon steel for machine structural uses spring steel and bearing steel free cutting steel special steel wires stainless steels and heat resisting steels, 4 digit rolled and drawn copper products rolled aluminium products aluminium sheet for general use extruded aluminium products, include drawing products aluminium pipe aluminium foil electric wire and cable, except optical fiber cable, 4 digit aluminium and aluminium alloy die castings, 4 digit non-ferrous die castings, except aluminium and aluminium alloy die castings, 4 digit powder metallurgy products, 4 digit bolts and nuts wood screws, machine screws and set screws

### helical springs

photoelectric converter device isotropic barium ferrite magnet, dry process anisotropic barium ferrite magnet, wet process plate glass, 4 digit assembled circuit board medium motor machine press processing injection molding glass molding expanded polystyrene (EPS) boards less than 7.5cm depth of minimum cross section, with more than 4 times width larger than depth corrugated board box black pigment, for coloring recycled pallet glass bulbs for electric lamps (including tubes and bars) electric nickel, MCLE process miscellaneous primary batteries isopropylalcohol tetrahydrofuran polydimethylsiloxane methanol

#### Production

electricity, Japan, 2014FY energy, LNG combustion tap water sewerage treatment service electricity, PR of China, IEA, 2011 energy, light oil combustion electricity, Thailand, IEA, 2011 truck transportation, 2t truck, loading ratio default ship transportation, container ship <4kTEU

#### Distribution

truck transportation, 10t truck, loading ratio default ship transportation, container ship <4kTEU

Use & maintenance corrugated board box polypropylene polyethylene terephthalate polyethylene, high density (HDPE) chloroprene rubber, butadiene acrylonitrile butadiene styrene resin, flame retardancy polyurethane, foamed polyacetal paper and machine-made Japanese paper, 4 digit packaging material, HDPE bag polycarbonate stainless steels and heat resisting steels, 4 digit aluminium pipe free cutting steel electrogalvanized steel sheet miscellaneous plastic wood screws, machine screws and set screws helical springs spring steel and bearing steel special steel wires felt and bonded fabrics foamed plastic products (flexible and semi-rigid), 4 digit polyimide paperboard, 4 digit painted printing paper rolled aluminium products synthetic rubbers (including synthetic latex), 4 digit polyphenylene ether resin rigid polyurethane, foamed machine press processing injection molding electric wire and cable, except optical fiber cable, 4 digit bolts and nuts electric nickel, MCLE process polyphenylene sulfide carbon steel for machine structural uses cyclic intermediates, synthetic dyes and organic pigments, 4 digit organic chemistry industrial products which are not elsewhere classified, 4 digit titanium oxide polyamide resin isopropylalcohol methanol tetrahydrofuran polydimethylsiloxane powder metallurgy products, 4 digit black pigment, for coloring recycled pallet silica gel boards less than 7.5cm depth of minimum cross section, with more than 4 times width larger than depth assembled circuit board polystyrene silicone rubber, compound aluminium foil electricity, Japan, 2014FY energy, LNG combustion tap water sewerage treatment service electricity, PR of China, IEA, 2011 energy, light oil combustion electricity, Thailand, IEA, 2011 truck transportation, 2t truck, loading ratio default ship transportation, container ship <4kTEU truck transportation, 10t truck, loading ratio default electricity, United States, IEA, 2011 high degree of intermediate treatment of used OA equipment (decomposition and dissection ~ crush and separation) landfill, industrial wastes

incineration, industrial waste landfill, domestic waste incineration, domestic waste, waste plastics incineration, domestic waste, waste paper

#### End-of-Life

truck transportation, 2t truck, loading ratio default high degree of intermediate treatment of used OA equipment (decomposition and dissection ~ crush and separation) landfill, industrial wastes incineration, industrial waste landfill, domestic waste incineration, domestic waste, waste plastics incineration, domestic waste, waste paper