

Japan EPD Program by SuMPO

Sustainable Management Promotion Organization 14-8, Uchikanda 1-chome, Chiyoda-ku, Tokyo Japan https://ecoleaf-label.jp/

Panasonic Connect Co., Ltd.

Toughbook FZ-G2 Series



Functional unit

Per unit of product

System boundary

■ final products □intermediate products

Raw material acquision, Production, Distribution

Use & maintenance, End-of-Life

Main specifications of the product

Model name: Toughbook FZ-GZ series

CPU: Intel® Core™ i5-10310U processor, 1.70GHz or Intel® Core™ i7-10810U processor, 1.10GHz Display: 10.1-inch WUXGA (1920 x 1200 dots), Capacitive multi-touch panel (AR processing) +

digitizer

Weight: approx. 1.32 kg Expected usage period: 4 years

*This product is sold for overseas and is for business

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Company Information

Panasonic Operational Excellence Co., Ltd. 1006, Kadoma, Kadoma City, Osaka 571-8501, Japan

TEL:06-6908-1171

	Registration#		JR-BF-23006E
	PCR number		PA-520000-BF-04
		PCR name	IT equipments
	Publication date		9/29/2023
	Verification date		9/11/2023
	Verification method		Product-by-product
	,	Verification#	JV-BF-23006
	E	xpiration date	9/10/2028
	PCR review was conducted by:		
r		Approval date	8/15/2023
r		PCR review panel chair	Ken Yamagishi (Affiliation Sustainable Management Promotion Organization)

Third party verifier* Tetsuya Okuyama

The reviewer has 14 years of experience in the LCA field. The reviewer has reviewed 61 LCAs has conducted 184 LCAs as of the date of vericiation.

Independent verification of data & declaration in accordance with ISO14025

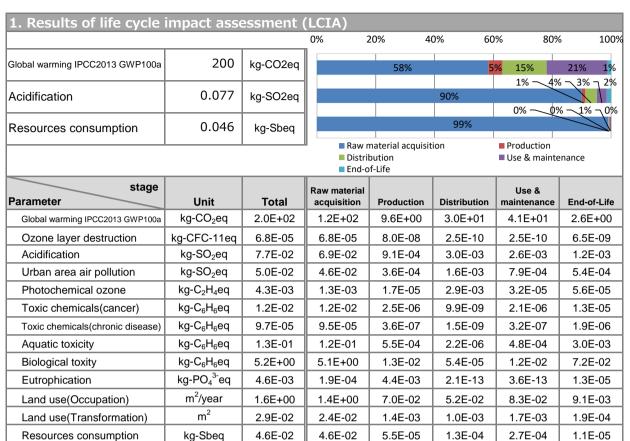
□internal **■** external

Registration number: JR-BF-23006E

 $^{{}^{*}}$ Auditor's name is stated if system certification has been performed.

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2. Life cycle inventory	CI)	
Parameter		Unit
Non-renewable material resources	1.1E+01	kg
Non-renewable energy resources	6.6E+01	kg
Non-renewable energy resources	2.8E+03	MJ
Renewable material resources	6.4E+00	kg
Renewable primary energy	1.1E+02	MJ
Consumption of freshwater	2.3E-01	m ³
Emissions, carbon dioxide (fossil), air, unspecified	1.7E+02	kg
Resources, crude oil, 44.7MJ/kg, ground, Non-renewable energy resources	2.3E+01	kg
Emissions, volatile organic compound, air, unspecified	6.6E-06	kg

3. Material composition				
Material		Unit		
Resin	31	%		
Magnesium	18	%		
Silicon	14	%		
Copper	10	%		
Glass	6.7	%		
Other	6.2	%		
Other metals	5.5	%		
Aluminium	3.8	%		
Iron	2.0	%		
Elastomere	1.9	%		
Stainless steel	0.7	%		
Zinc	0.6	%		
Nickel	0.4	%		
Corrugated board, paper	0.0	%		



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Type III Environmental Declaration (EPD)

 $Registration\ number:\ JR\text{-}BF\text{-}23006E$

4. Waste to disposal				
Parameter		Unit		
Hazardous waste	0.00E+00	kg		
Non-hazardous waste.	2.6E+00	kg		
Treated MSW for landfill	1.5E-02	kg		
Treated industrial waste for landfill	2.6E+00	kg		

^{*}Data derived from LCA and not assigned to the impact categories of LCIA

5. Additional explanation

- · Product name: FZ-G2
- Product type of scenario used: notebook personal computer, tablet terminal
- $\cdot \ \text{Measurement conditions: measurements were made according to the measurement method specified in the} \\$

"Computers Specification Version 8.0".

• The estimated usage period was determined based on the statutory useful life for depreciation.

Main product specifications

-CPU type and clock frequency: Intel® Core™ i5-10310U processor, 1.70GHz or

Intel® Core™ i7-10810U processor, 1.10GHz

-Main memory capacity: 16 GB -Memory capacity: 512 GB (PCIe)

-Drive type: SSD

Display size and type: 10.1" WUXGA (1920 x 1200 dots) (16:10) Capacitive multi-touch panel (AR processing) + digitizer, Minimum brightness approx. 2 cd/m2, Maximum brightness approx. 1000 cd/m2 (average)

- -Main unit weight: approx. 1.32 kg
- -Assumed users of the target: Business use
- -Disposal scenario: since this is a product for overseas market, it is difficult to set the amount of recycling.

Therefore, the recycling rate was calculated as 0% in accordance with annex E: disposal and recycling scenarios of PCR.

-In this calculation, models with Intel® Core™ i5-10310U processor were calculated as the FZ-G2 series.

6-1. Supplementary environmental information

The product complies with the European RoHS Directive.

EU Declaration of Conformity, Document Number D21-MSBD-C001-02

https://www.ptc.panasonic.eu/compliance-documents?category=Select+product+name&type=

This product and its main components are manufactured in an ISO 14001 certified factory.

Certification ID, LRQA 10091194

https://holdings.panasonic/jp/corporate/sustainability/pdf/eco_isolist2021.pdf

7. Assumptions of secondary data used

IDEA v2.1.3 and program registration intensity v1.13.

8. Remarks

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- 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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