

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-40 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-40 series

CPU : Intel® Core™ i5-1145G7 processor, 1.10GHz or Intel® Core™ i7-1185G7 processor, 1.20GHz Display : 14.0-inch Full HD (1920 x 1080 pixels)

Capacitive multi-touch panel Weight: approx. 3.41kg Expected usage life: 4 years

*This product is sold for overseas and is for business

use.

Company Information

Panasonic Operational Excellence Co., Ltd. 1006, Kadoma, Kadoma City, Osaka 571-8501, Japan TEL:06-6908-1171

Registration#	JR-BF-23007E	
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-23007	
Expiration date	9/10/2028	
PCR review was conducted by:		
Approval date	8/15/2023	
PCR review	Ken Yamagishi	

Third party verifier* Tetsuya Okuyama

panel chair

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

(Affiliation Sustainable Management Promotion Organization)

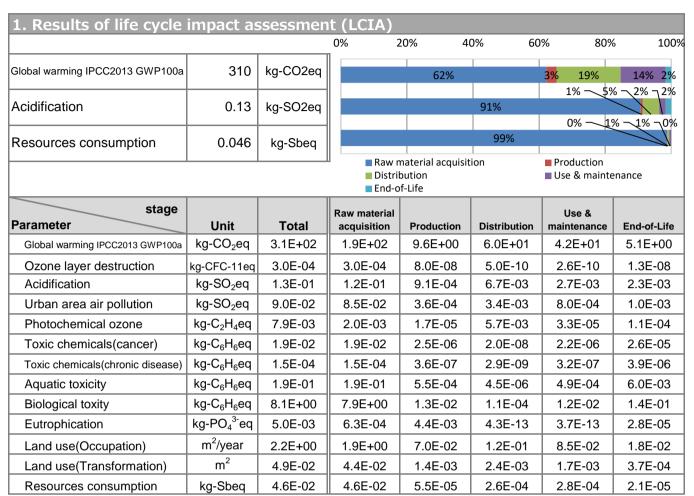
Registration number: JR-BF-23007E

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



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2. Life cycle inventory analysis (LCI)				
Parameter		Unit		
Non-renewable material resources	1.9E+01	kg		
Non-renewable energy resources	9.9E+01	kg		
Non-renewable energy resources	4.2E+03	MJ		
Renewable material resources	1.8E+01	kg		
Renewable primary energy	1.2E+02	MJ		
Consumption of freshwater	3.5E-01	m ³		
Emissions, carbon dioxide (fossil), air, unspecified	2.6E+02	kg		
Resources, crude oil, 44.7M3/kg, ground, Non-renewable energy resources	4.3E+01	kg		
Emissions, volatile organic compound, air, unspecified	1.4E-05	kg		

3. Material composition				
Material		Unit		
Magnesium	36	%		
Resin	21	%		
Glass	7.3	%		
Aluminium	6.7	%		
Copper	6.1	%		
Nickel	6.1	%		
Iron	4.6	%		
Elastomere	2.9	%		
Stainless steel	2.8	%		
Other metals	2.6	%		
Other	2.4	%		
Electrolyte	1.0	%		
Zinc	0.0	%		



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4. Waste to disposal				
Parameter		Unit		
Hazardous waste	0.00E+00	kg		
Non-hazardous waste.	5.1E+00	kg		
Treated MSW for landfill	1.8E-02	kg		
Treated industrial waste for landfill	5.1E+00	kg		

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

5. Additional explanation

- · Product name: FZ-40
- \cdot Product type of scenario used: Notebook personal computer, Tablet terminal
- 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™ i5-1145G7 processor, 1.10GHz or

Intel® Core™ i7-1185G7 processor, 1.20GHz

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

-Drive type: SSD

Display size and type: 14.0" Full HD (1920 x 1080 pixels) (16:9) Capacitive multi-touch panel

 $(finger/pen/glove/water\ drop\ mode\ auto\ switching\ function)\ (AR\ processing), Minimum\ brightness\ approx.\ 1$

cd/m2 (Average), Maximum brightness approx. 1200 cd/m2 (Average)

-Main unit weight: Approx. 3.41 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.

6-1. Supplementary environmental information

The product complies with the EU's RoHS Directive.

EU Declaration of Conformity, Document Number D21-MSBD-C010-05

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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