50, avenue du Nouveau Monde
74300 Cluses
Tél. 04 50 96 83 79

Product Environmental Profil

Radio Motor for curtains TO50 RTS with External Power supply

A leading player in the housing industry for over 50 years, SOMFY is working to reduce its carbon emissions by 50% by 2030 and like so helps its customers and partners in their environmental approach.

Our actions to reduce our carbon footprint:

OFFER ECO-DESIGNED* PRODUCTS WITH A REDUCED ENVIRONMENTAL IMPACT THROUGHOUT THEIR LIFE CYCLE

OFFER SOLUTIONS THAT IMPROVE THE ENERGY EFFICIENCY OF BUILDINGS AND THUS LIMIT CO2 EMISSIONS.

[1]. Somfy's eco-design approach, identified by the ACT FOR GREEN label, aims to reduce the environmental impact of products throughout their life cycle, from the extraction of raw materials to the end of their life, by placing requirements above current regulations.

— Reference product

> Reference product

TILT ONLY 50 RTS CENTRAL PACK

Réf.	1240276C

> Functional unit

Ensure the closing and opening action by performing 10 000 operating cycles, over a service life of 15 years, with a torque of 1 Nm, on a run of 2 meters.

> References covered

1240276C	TILT ONLY 50 RTS CENTRAL PACK
1240277C	TILT ONLY 50 RTS CENTRAL UNIT

Materials and substances

All useful measures have been adopted to ensure that the materials used in the composition of the product do not contain any substances banned by the legislation in force at the time of marketing.

Plastics		Metals		Other	
	%		%		%
PU	2.3	**Zinc**	47.4	**Glass fibre**	1.4
PVC	1.4	**Steel**	7.8	**alumine**	0.2
PA6	0.8	**Aluminium**	2.0	**Electrolyte**	0.2
PA66	0.6	**Copper**	1.7	**Other**	0.5
PE-LD	0.5	**Zamak**	1.4	**Sum**	2.3
Other	1.4	**Other**	1.7	Packaging	
Sum	7.0	**Sum**	62.1	**Cardboard**	0.2
				Paper	28.3
				Sum	28.6
Total mass of the reference product : 428,0g					
Estimated recyclable content: 29.4%					

> CHEMICAL SUBSTANCES

The product covered by this PEP comply with REACH regulation and RoHS directive 2011/65/EU, 2015/863 et 201/2102.

— Manufacturing

The devices covered in this PEP are manufactured in a production that has adopted an environmental management approach.

> Energy model
China mix

— Distribution

> Packaging is continuously improved by reducing the amount and using a maximum of recycled materials

> The unit pack has been modeled here. It is made up of:
- 100% recycled fiber paper instructions
- cardboard with a minimum of 50% recycled fibers

— Installation

> Installation elements
There is no element included in this phase.

> Installation processes
There is no installation process

> Energy model
Not applicable

— Use

>For the considered scenario, the product has a power of 5.4W in active mode during 0,03% of the time and 0.179W in standby mode during 99.97% of the time. This corresponds to an energy consumption of 23.7 kWh for the lifetime of 15 years.

> Energy model of the use phase: European mix

> Consumables and maintenance : None

— End of life

> Typical transport conditions
Considering the complexity of the electric and electronic recycling channel and our lack of knowledge about the end-of-life processes implemented all around the world, we considered:

- 200 km of transport.
- A waste pretreatment of electrical and electronic equipment, including dismantling and material separation

- A waste incineration of electrical and electronic equipment.

50, avenue du Nouveau Monde
74300 Cluses
Tél. 04 50 96 83 79

Product Environmental Profil

Radio Motor for curtains TO50 RTS with External Power supply

— Environmental impacts

Evaluation of the environmental impact covers the following life cycle stages: manufacturing, distribution, installation, use and end of life. All calculations are done with EIME software version EIME© v5.9.4 and CODDE 2022-01.

Indicators	Units	Global	Manufacturing	Distribution	Installation	Use	End of life
Acidification potential of soil and water	Kg eq. SO_2	3.53E-02	1.52E-02	3.63E-03	6.03E-05	1.64E-02	4.84E-05
Abiotic depletion (elements. ultimate reserves)	Kg eq. Antimoine	1.18E-03	1.18E-03	4.94E-09	8.18E-10	9.65E-07	4.86E-10
Abiotic depletion (fossil fuels)	MJ	2.46E+02	9.77E+01	1.73E+00	1.00E-01	1.46E+02	1.28E-01
Air pollution	m^3	2.57E+03	1.90E+03	1.77E+01	3.00E+00	6.48E+02	7.67E-01
Eutrophication	kg eq. PO4	7.11E-03	3.52E-03	3.63E-04	8.76E-05	3.02E-03	1.13E-04
Global Warming	kg eq. CO2	1.85E+01	8.84E+00	1.36E-01	1.09E-01	9.38E+00	1.21E-02
Ozone layer depletion	kg eq. CFC-11	1.10E-06	1.06E-06	2.35E-10	3.67E-10	3.72E-08	9.82E-11
Photochemical oxidation	kg eq. ethylene	2.75E-03	1.25E-03	1.81E-04	2.46E-05	1.29E-03	3.74E-06
Water pollution	m^3	1.05E+03	6.92E+02	2.03E+01	1.10E+00	3.31E+02	1.52E+00
Total Primary Energy	MJ	4.21E+02	1.24E+02	1.74E+00	1.17E-01	2.95E+02	1.33E-01
Total use of renewable primary energy resources	MJ	5.66E+01	9.03E+00	2.23E-03	3.93E-03	4.76E+01	1.01E-03
Total use of non-renewable primary energy resources	MJ	3.65E+02	1.15E+02	1.74E+00	1.13E-01	2.48E+02	1.32E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	5.66E+01	9.02E+00	2.23E-03	3.93E-03	4.76E+01	1.01E-03
Use of renewable primary energy resources used as raw material	MJ	1.72E-02	1.72E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of nonrenewable primary energy excluding nonrenewable primary energy used as raw material	MJ	3.64E+02	1.14E+02	1.74E+00	1.13E-01	2.48E+02	1.32E-01
Use of nonrenewable primary energy resources used as raw material	MJ	9.57E-01	9.57E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of nonrenewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of secondary material	kg	1.35E-01	1.35E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net use of fresh water	m3	8.64E-01	4.42E-01	1.06E-05	3.56E-05	4.22E-01	4.08E-06
Hazardous waste disposed	kg	2.15E+01	2.13E+01	0.00E+00	6.49E-05	1.82E-01	5.08E-04
Non hazardous waste disposed	kg	4.21E+00	2.41E+00	4.22E-03	1.36E-01	1.40E+00	2.63E-01
Non hazardous waste disposed	kg	1.14E-03	8.42E-04	2.93E-06	4.56E-06	2.93E-04	1.21E-06
Components for reuse	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported Energy	MJ	1.63E-01	9.42E-02	0.00E+00	6.93E-02	0.00E+00	0.00E+00

> Those impacts are only applicable to the reference product on page 1.

> Extrapolation rule

For each phase of the life cycle. there is an extrapolation factor. To obtain the impacts of the other product, you need to multiply by the specific extrapolation factor.

	Manufacturing	Distribution	Installation	Use	End of life	Example for Use Phase Global warming (kg eq. CO2)
1240277C	1.16	1.00	1.00	1.00	1.00	9.38E+00

Registration number :**SOMF-00101-V01.02-EN**	Drafting Rules: PCR-ed3-EN-2015 04 02 Complemented by : PSR-0006-ed1.1-EN-2015 10 16
Accreditation number: VH18	Programme information: www.pep-ecopassport.org
Date of issue: 09-2022	Validity period: 5 years
Independent verification of the declaration and data. in compliance with ISO 14025 : 2006 Internal ☐ External ☑ Bureau Veritas LCIE	
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)	
PEP are compliant with XP C08-100-1: 2016 The elements of the present PEP cannot be compared with elements from another program.	
Document in compliance with ISO 14025: 2006 “Environmental labels and declarations. Type III environmental déclarations	
Somfy contact: Pierre HOGUET. Ecodesign Engineer. pierre.hoguet@somfy.com	