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# Product Environmental Profil

## Curtain motor Glydea Ultra WT


**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**

Glydea Ultra 60e MIC WT

| Réf. | 1003160D |
|---|---|

**> Functional unit**

Ensure the closing and opening action by performing 14 000 operating cycles, and a reference service life of 15 years, with a torque of 60 Nm, on a length of 2 meters, corresponding to 13 winding turns per half-cycle, with a tube diameter of 50 mm.

**> References covered**

| | | | | | |
|---|---|---|---|---|---|
| 1003153D | Glydea Ultra 35e WT MIC | 1003165D | Glydea Ultra 35e WT MIF | 1240228D | Glydea Ultra 60e WT N |
| 1003206D | Glydea Ultra 35e WT MIC AR | 1003168D | Glydea Ultra 60e WT MIF | 1240234D | Izigo Ultra 50e WT |
| 1003323D | Glydea Ultra 35e WT MIC TW | 1003212D | Glydea Ultra 35e WT N MIC SA | 1241777B | GLYDEA ULTRA 35e WT MIC SII |
| 1003160D | Glydea Ultra 60e WT MIC | 1240219D | Glydea Ultra 35e WT N | 1241776B | GLYDEA ULTRA 60e WT MIC SII |
| 1003209D | Glydea Ultra 60e WT MIC AR | 1240231D | Izigo Ultra 30e WT | 1242096D | GLYDEA ULTRA 35e WT MIC KR |
| 1003326D | Glydea Ultra 60e WT MIC TW | 1003215D | Glydea Ultra 60e WT N MIC SA | 1242098D | GLYDEA ULTRA 60e WT MIC KR |

## 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 | |
|---|---|---|---|---|---|
| | % | | % | | % |
| **PA66** | 4.8 | **Aluminium** | 25.3 | **Fibre de verre** | 2.6 |
| **PVC** | 4.7 | **Steel** | 11.2 | **Lubrifiant** | 0.3 |
| **ABS** | 3.0 | **Zamak** | 7.5 | **Enamel** | 0.2 |
| **Epoxy resine** | 1.2 | **Copper** | 5.2 | **Others** | 0.5 |
| **PA6** | 0.5 | **Stainless steel** | 3.4 | **Total** | 3.7 |
| **Others** | 1.6 | **Others** | 4.8 | Packaging | |
| **Total** | 15.7 | **Total** | 57.4 | **Cardboard** | 17.5 |
| | | | | **Paper** | 5.6 |
| | | | | **Total** | 23.2 |
| **Total mass of the reference product : 1650g** | | | | | |
| **Estimated recyclable content : 64.2%** | | | | | |

### > 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**

Chinese 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 60 W in active mode during 0.532% of the life cycle, and 0.203W during 99.468% of his life cycle.**

**> Energy model of the use phase:** European mix

**> Consumables and maintenance :** None

If the command button is in neutral position, there is no standby consumption. Therefore, the impacts are drastically reduced.

## — 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.

## 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© v5.9.3 and CODDE 2022-01.

| Indicators | Units | Global | Manufacturing | Distribution | Installation | Use | End of life |
|---|---|---|---|---|---|---|---|
| **Acidification potential of soil and water** | Kg eq. $SO_2$ | 1.25e-1 | 6.33e-2 | 1.41e-2 | 9.22e-5 | 4.74e-2 | 3.20e-4 |
| **Abiotic depletion (elements. ultimate reserves)** | Kg eq. Antimoine | 2.86e-3 | 2.85e-3 | 1.92e-8 | 9.67e-10 | 2.79e-6 | 3.19e-9 |
| **Abiotic depletion (fossil fuels)** | MJ | 6.66e+2 | 2.36e+2 | 6.73e+0 | 2.14e-1 | 4.22e+2 | 6.85e-1 |
| **Air pollution** | $m^3$ | 4.51e+3 | 2.56e+3 | 6.88e+1 | 3.90e+0 | 1.87e+3 | 8.54e+0 |
| **Eutrophication** | kg eq. PO4 | 2.09e-2 | 9.29e-3 | 1.41e-3 | 8.44e-4 | 8.74e-3 | 6.12e-4 |
| **Global Warming** | kg eq. CO2 | 5.09e+1 | 2.22e+1 | 5.26e-1 | 4.86e-1 | 2.71e+1 | 6.67e-1 |
| **Ozone layer depletion** | kg eq. CFC-11 | 2.65e-6 | 2.54e-6 | 9.13e-10 | 1.28e-9 | 1.07e-7 | 2.26e-9 |
| **Photochemical oxidation** | kg eq. ethylene | 9.57e-3 | 5.00e-3 | 7.03e-4 | 1.16e-4 | 3.73e-3 | 2.24e-5 |
| **Water pollution** | $m^3$ | 3.25e+3 | 2.17e+3 | 7.88e+1 | 2.32e+1 | 9.58e+2 | 2.29e+1 |
| **Total Primary Energy** | MJ | 1.20e+3 | 3.39e+2 | 6.78e+0 | 2.48e-1 | 8.53e+2 | 7.96e-1 |
| **Total use of renewable primary energy resources** | MJ | 1.55e+2 | 1.72e+1 | 8.68e-3 | 3.12e-3 | 1.37e+2 | 8.52e-3 |
| **Total use of non-renewable primary energy resources** | MJ | 1.05e+3 | 3.22e+2 | 6.77e+0 | 2.45e-1 | 7.16e+2 | 7.87e-1 |
| **Use of renewable primary energy excluding renewable primary energy used as raw material** | MJ | 1.54e+2 | 1.63e+1 | 8.68e-3 | 3.12e-3 | 1.37e+2 | 8.52e-3 |
| **Use of renewable primary energy resources used as raw material** | MJ | 8.67e-1 | 8.67e-1 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 |
| **Use of nonrenewable primary energy excluding nonrenewable primary energy used as raw material** | MJ | 1.04e+3 | 3.14e+2 | 6.77e+0 | 2.45e-1 | 7.16e+2 | 7.87e-1 |
| **Use of nonrenewable primary energy resources used as raw material** | MJ | 8.57e+0 | 8.57e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 |
| **Use of nonrenewable secondary fuels** | MJ | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 |
| **Use of renewable secondary fuels** | MJ | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 |
| **Use of secondary material** | kg | 6.61e-1 | 6.61e-1 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 |
| **Net use of fresh water** | m3 | 3.24e+0 | 2.03e+0 | 4.11e-5 | 3.71e-5 | 1.22e+0 | 2.56e-4 |
| **Hazardous waste disposed** | kg | 3.52e+1 | 3.42e+1 | 0.00e+0 | 3.50e-4 | 5.25e-1 | 4.01e-1 |
| **Non hazardous waste disposed** | kg | 2.50e+1 | 1.94e+1 | 1.64e-2 | 3.91e-1 | 4.04e+0 | 1.08e+0 |
| **Non hazardous waste disposed** | kg | 1.25e-2 | 1.16e-2 | 1.14e-5 | 4.11e-6 | 8.46e-4 | 1.10e-5 |
| **Components for reuse** | kg | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 |
| **Materials for recycling** | kg | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 |
| **Materials for energy recovery** | kg | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 | 0.00e+0 |
| **Exported Energy** | MJ | 1.47e-1 | 9.42e-2 | 0.00e+0 | 5.27e-2 | 0.00e+0 | 0.00e+0 |

**> Here are the impacts of the B module.**

| Indicators | Units | Use phase | B1 | B2 | B3 | B4 | B5 | B6 | B7 |
|---|---|---|---|---|---|---|---|---|---|
| **Acidification potential of soil and water** | kg SO2 eq | 4.74e-2 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.74e-2 | 0.00E+00 |
| **Abiotic depletion (elements. ultimate reserves)** | Kg eq. Antimoine | 2.79e-6 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.79e-6 | 0.00E+00 |
| **Abiotic depletion (fossil fuels)** | MJ | 4.22e+2 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.22e+2 | 0.00E+00 |
| **Air pollution** | $m^3$ | 1.87e+3 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.87e+3 | 0.00E+00 |
| **Eutrophication** | kg PO4--- eq | 8.74e-3 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.74e-3 | 0.00E+00 |
| **Global Warming** | kg CO2 eq. | 2.71e+1 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.71e+1 | 0.00E+00 |
| **Ozone layer depletion** | kg CFC-11 eq. | 1.07e-7 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.07e-7 | 0.00E+00 |
| **Photochemical oxidation** | kg ethylene eq. | 3.73e-3 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.73e-3 | 0.00E+00 |
| **Water pollution** | $m^3$ | 9.58e+2 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.58e+2 | 0.00E+00 |
| **Total Primary Energy** | MJ | 8.53e+2 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.53e+2 | 0.00E+00 |
| **Total use of renewable primary energy resources** | MJ | 1.37e+2 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.37e+2 | 0.00E+00 |
| **Total use of non-renewable primary energy resources** | MJ | 7.16e+2 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.16e+2 | 0.00E+00 |
| **Use of renewable primary energy excluding renewable primary energy used as raw material** | MJ | 1.37e+2 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.37e+2 | 0.00E+00 |
| **Use of renewable primary energy resources used as raw material** | MJ | 0.00e+0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00e+0 | 0.00E+00 |
| **Use of nonrenewable primary energy excluding nonrenewable primary energy used as raw material** | MJ | 7.16e+2 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.16e+2 | 0.00E+00 |
| **Use of nonrenewable primary energy resources used as raw material** | MJ | 0.00e+0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00e+0 | 0.00E+00 |
| **Use of nonrenewable secondary fuels** | MJ | 0.00e+0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00e+0 | 0.00E+00 |
| **Use of renewable secondary fuels** | MJ | 0.00e+0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00e+0 | 0.00E+00 |
| **Use of secondary material** | kg | 0.00e+0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00e+0 | 0.00E+00 |
| **Net use of fresh water** | m3 | 1.22e+0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.22e+0 | 0.00E+00 |
| **Hazardous waste disposed** | kg | 5.25e-1 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.25e-1 | 0.00E+00 |
| **Non hazardous waste disposed** | kg | 4.04e+0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.04e+0 | 0.00E+00 |
| **Non hazardous waste disposed** | kg | 8.46e-4 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 8.46e-4 | 0.00E+00 |
| **Components for reuse** | kg | 0.00e+0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00e+0 | 0.00E+00 |
| **Materials for recycling** | kg | 0.00e+0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00e+0 | 0.00E+00 |
| **Materials for energy recovery** | kg | 0.00e+0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00e+0 | 0.00E+00 |
| **Exported Energy** | MJ | 0.00e+0 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00e+0 | 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) |
|---|---|---|---|---|---|---|
| 30e | 1.00 | 1.00 | 1.00 | 0.69 | 1.00 | 1.87E+01 |
| 35e | 1.00 | 1.00 | 1.00 | 0.74 | 1.00 | 2.01E+01 |
| 50e | 1.00 | 1.00 | 1.00 | 0.9 | 1.00 | 2.44E+01 |
| 60e | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 2.71E+01 |


| | |
|---|---|
| Registration number :**SOMF-00095-V01.02-EN** | Drafting Rules: PCR-ed3-EN-2015 04 02<br>Complemented by : PSR-0006-ed1.1-EN-2015 10 16 |
| Accreditation number: VH18 | Programme information: www.pep-ecopassport.org |
| Date of issue: 08-2022 | Validity period: 5 years |
| Independent verification of the declaration and data. in compliance with ISO 14025 : 2006<br>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<br>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 | |
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