



# Product Environmental Profile

Q.1/Q.3 Rocker 1-Gang Polar White Velvety



## **Company information**

#### Berker

Schalksmühle Klagebach 38 58579 - Schalksmühle www.hagergroup.net

A question concerning the Product Environmental Profile: infopep@hager.com

# Methodology

PEP has been performed according to the PCR version PEP-PCR-ed3-2015 04 02 issued by the PEP ecopassport program.

For further information, please see the website of the program www.pep-ecopassport.org

#### **References covered**

Q.1/Q.3 Rocker 1-Gang Polar White Velvety (16206089)

## **Reference product**

#### **Reference product identification**

Q.1/Q.3 Rocker 1-Gang Polar White Velvety (16206089)

## **Functional unit**

Protect persons against electrocution by direct contact and contribute to the switch aesthetic for 20 years.

The functional unit is based on the use scenario recommended by the PCR for the category of the reference product.

#### **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			Others			
	g	%		g	%		g	%
Epoxy resin	14.80	61.11%				Cardboard	3.92	16.18%
PA 6	4.59	18.95%				Glass fiber	0.81	3.34%
Nitril rubber	0.10	0.41%						
Total mass of referenc	Total mass of reference product :							

## Manufacturing

These products are manufactured by a site that has received an environmental certification ISO 14001.

## **Distribution**

The packaging has been designed in accordance with current regulations. In particular, the European directive 94/62/CE relative to packaging and packaging waste.

The used packaging is 100% recyclable or recoverable. Packaging and logistic flows are continuously improved in order to reduce their impact.

## Installation

#### Installation processes

The processes to install the product are not considered in this study because of their weak impact compared to the other life cycles steps.

Installation elements (non delivered with the product) Elements non delivered with the product and needed to install the product are not considered.

### Use

For the considered scenario, the product has no energy consumption.

Energy model of the use phase : None

Consumables and maintenance : None

## End of life

Considering the complexity and the lack of knowledge of the electric and electronic recycling channel and processes, we considered only a 1000 km transport of the product at end of life, as recommended by the PCR.

The recycling potential of the product is: 9%. The calculation of this rate is based on the method of the IEC/TR 62635.

# **Environmental impacts**

Evaluation of the environmental impact covers the following life cycle stages: raw materials + manufacturing (RMM), distribution (D), installation (I), use (U) and end of life (EoL).

All calculations are done with EIME software version Siegfried VOGEL with the database version 5.5.0.11 .

#### Environmental impact indicators

Indicators	Unit	Manufacturing RMM	Distribution D	Installation I	Use U	End Of Life EoL	GLOBAL
Global Warming	kg CO <sub>2</sub> eq.	2.29E-01	4.22E-03	2.43E-04	0.00E+00	2.44E-03	2.36E-01
Ozone Depletion	kg CFC-11 eq.	6.13E-09	8.55E-12	1.66E-12	0.00E+00	6.22E-11	6.20E-09
Acidification of soil and water	kg SO2 eq	5.25E-04	1.90E-05	1.19E-06	0.00E+00	9.27E-06	5.54E-04
Eutrophication	kg PO₄³⁻ eq.	1.17E-04	4.36E-06	1.29E-06	0.00E+00	1.06E-05	1.33E-04
Photochemical Ozone Creation	kg $C_2H_4$ eq.	4.18E-05	1.35E-06	8.42E-08	0.00E+00	7.24E-07	4.40E-05
Depletion of abiotic resources - elements	kg Sb eq	3.56E-07	1.69E-10	1.06E-11	0.00E+00	1.57E-10	3.57E-07
Depletion of abiotic resources – fossil fuels	MJ	3.07E+00	5.93E-02	3.38E-03	0.00E+00	3.48E-02	3.17E+00
Water Pollution	m³	1.63E+02	6.94E-01	3.77E-02	0.00E+00	2.75E-01	1.64E+02
Air Pollution	m³	9.71E+00	1.73E-01	3.08E-02	0.00E+00	2.89E-01	1.02E+01

#### **Resource use indicators**

Indicators	Unit	Manufacturing RMM	Distribution D	Installation I	Use U	End Of Life EoL	GLOBAL
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials		4.59E-02	7.95E-05	3.82E-05	0.00E+00	6.68E-04	4.67E-02
Use of renewable primary energy resources as raw materials	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of renewable primary energy resources	MJ	3.98E+00	5.96E-02	3.44E-03	0.00E+00	3.70E-02	4.08E+00
Use of non-renewable primary energy, excluding non renewable primary energy resources used as raw materials		4.59E-02	7.95E-05	3.82E-05	0.00E+00	6.68E-04	4.67E-02
Use of non-renewable primary energy resources as raw materials	MJ	4.03E+00	5.97E-02	3.48E-03	0.00E+00	3.76E-02	4.13E+00
Total use of non renewable primary energy resources	MJ	3.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.27E-03
Total use of primary energy	MJ	4.03E+00	5.97E-02	3.48E-03	0.00E+00	3.76E-02	4.13E+00
Use of secondary materials	kg	3.34E+00	5.96E-02	3.44E-03	0.00E+00	3.70E-02	3.44E+00
Use of renewable secondary fuels	MJ	6.46E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.46E-01
Use of non-renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net fresh water use	m³	3.16E-03	3.78E-07	7.60E-08	0.00E+00	2.14E-06	3.16E-03

#### Waste category indicators

Indicators	Unit	Manufacturing RMM	Distribution D	Installation I	Use U	End Of Life EoL	GLOBAL
Hazardous waste disposed	kg	4.01E-03	0.00E+00	8.89E-07	0.00E+00	1.08E-05	4.02E-03
Non-hazardous waste disposed	kg	9.11E-02	1.50E-04	4.03E-03	0.00E+00	2.27E-02	1.18E-01
Radioactive waste disposed	kg	3.47E-05	1.07E-07	2.07E-08	0.00E+00	7.77E-07	3.56E-05

#### **Output flow indicators**

Indicators	Unit	Manufacturing RMM	Distribution D	Installation I	Use U	End Of Life EoL	GLOBAL
Components for re-use	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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

# Verification

	Drafting Rules PEP–PCR–ed3-2015 04 02					
Registration N°: HAGE-00012-V01.01-EN	Supplemented by	PSR-0005-ed1-EN -2012 12 11				
Verifier accreditation N°: VH03	Information and reference documents: www.pep-ecopassport.org					
Date of issue: 04-2016	Validity period: 5 years					
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010						
Internal 🛞 External 🔘						
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)						
The elements of the present PEP cannot be compared with elements		CO PASS				
Document in compliance with ISO 14025 : 2010 « Environmental labe declarations »	ls and declarations. Type	III environmental	PASS PORT®			

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