

128 av. du Maréchal-de-Lattre-de-Tassigny 87045 Limoges Cedex France Tel. +33 (0) 555068787 Fax. + 33 (0) 555068888

Your usual Sales office www.legrand.com

Product Environmental Profile

Niloé™

One-way switch - 1 Gang - 10AX - White - With claws





■ LEGRAND'S ENVIRONMENTAL COMMITMENTS

- Incorporate environmental management into our industrial sites
- Of all Legrand sites worldwide, over 85% are ISO 14001-certified (sites belonging to the Group for more than five years).
- Offer our customers environmentally friendly solutions

Develop innovative solutions to help our customers design more energy efficient, better managed and more environmentally friendly installations.

• Involve the environment in product design and provide informations in compliance with ISO 14025

Reduce the environmental impact of products over their whole life cycle.

Provide our customers with all relevant information (composition, consumption, end of life, etc.).



■ REFERENCE PRODUCT ■

Function	Establish, support and interrupt for 20 years rated cure 250 V low voltage with rated load not exceeding 10A.	rents in normal conditions of circuit characterized to a		
Reference Product				
	Cat. No 7 645 00	Cat. No 6 650 01		
	Mechanism	Plate 1 Gang		
	One-way switch - 1 Gang - 10AX - White - With claws			

The company reserves the right to change specifications and designs without notice. All illustrations, descriptions, dimensions and weights in the document are for guidance and cannot be held binding on the company



PRODUCTS CONCERNED

The environmental data is representative of the following products:

One-way switch	1 Gang plate	2 Gang plate	3 Gang plate	4 Gang plate	5 Gang plate
• 7 645 00 - White	• 6 650 01 - White	• 6 650 02 - White	• 6 650 03 - White	• 6 650 04 - White	• 6 650 05 - White
• 7 646 00 - Ivory	• 6 650 11 - Ivory	• 6 650 12 - Ivory	• 6 650 13 - Ivory	• 6 650 14 - Ivory	• 6 650 15 - Ivory
	• 6 650 21 - Red	• 6 650 22 - Red	• 6 650 23 - Red	• 6 650 24 - Red	• 6 650 25 - Red
	• 6 650 31 - Taupe	• 6 650 32 - Taupe	• 6 650 33 - Taupe	• 6 650 34 - Taupe	• 6 650 35 - Taupe
	• 3 970 31 - Bronze	• 3 970 32 - Bronze	• 3 970 33 - Bronze		
	• 3 970 41 - Aluminium	• 3 970 42 - Aluminium	• 3 970 43 - Aluminium		
	• 3 970 51 - Onyx	• 3 970 52 - Onyx	• 3 970 53 - Onyx		
	• 3 970 71 - Cacao	• 3 970 72 - Cacao	• 3 970 73 - Cacao		
	• 3 970 81 - Plum	• 3 970 82 - Plum	• 3 970 83 - Plum		
	• 3 970 91 - Dark wood	• 3 970 92 - Dark wood	• 3 970 93 - Dark wood		
	• 3 970 95 - Light wood	• 3 970 96 - Light wood	• 3 970 97 - Light wood		



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■ CONSTITUENT MATERIALS

This Reference Product contains no substances prohibited by the regulations applicable at the time of its introduction to the market.

Plastics as % of weight		Metals as % of weight	Packaging as % of weight	
Total weight of Reference Product	97 g (all p	packaging included)		

Total plastics	40.1 %	Total metals	10.3 %	Total other and packaging	49.6 %	
PS	< 0.1 %					
		Silver Alloy	0,2 %			
		Other metal	1.2 %	PE (packaging)	3.0 %	
ABS	18.0 %	Copper Alloys	1.9 %	Paper (packaging)	20.9 %	
PC	22.1 %	Steel	7.0 %	Wood (packaging)	25.7 %	
Plastics as % of weight		Metals as % of weight		Packaging as % of weight		

Estimated recycled material content: 18 % by mass.



MANUFACTURE MANUFACTURE

This Reference Product comes from sites that has received ISO14001 certification.



■ DISTRIBUTION ■

Products are distributed from logistics centres located with a view to optimize transport efficiency. The Reference Product is therefore transported over an average distance of 1405 km by road from our warehouse to the local point of distribution into the market in Europe.

Packaging is compliant with European directive 2004/12/EU concerning packaging and packaging waste. At their end of life, its recyclability rate is 91 % (in % of packaging weight).



■ INSTALLATION ■

For the installation of the product, only standard tools are needed.



USE I

Under normal conditions of use, this product requires no servicing, no maintenance or additional products.



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■ END OF LIFE I

The product end-of-life factors are taken into account during the design phase. Dismantling and sorting of components or materials is made as easy as possible with a view to recycling or failing that, another form of reuse.

· Recyclability rate:

Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 93%. This value is based on data collected from a technological channel using industrial procedures. It does not pre-validate the effective use of this channel for end-of-life electrical and electronic products.

Separated into:

- plastic materials (excluding packaging) : 38 % - metal materials (excluding packaging) : 10 % : 45 % - packaging (all types of materials)



■ ENVIRONMENTAL IMPACTS

The evaluation of environmental impacts examines the stages of the Reference Product life cycle: manufacturing, distribution, installation, use and end-of-life. It is representative from products marketed and used in Europe, in compliance with the local current standards. For each phase, the following modelling elements were taken in account:

Manufacture Materials and components of the product, all transport for the manufacturing, the packaging and the waste generated by the manufacturing. Distribution Transport between the last Group distribution centre and an average delivery point in the sales area. Installation The end of life of the packaging. Use • Product category: passive product. • Use scenario : non-continuous operation for 20 years at 50% of rated load, during 30% of the time. This modelling duration does not constitute a minimum durability requirement. • Energy model: Electricity Mix, Europe 27 - 2002. End of life The default end of life scenario maximizing the environmental impacts. Software and

database used

EIME V5 and its database «CODDE-2015-04»



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■ SELECTION OF ENVIRONMENTAL IMPACTS ■

	Total for l	_ife cycle	Raw material a manufact		Distributi	on	Installatio	on	Use		End of life	<u>.</u>
Global warming	7.84E+00	kgCO ₂ eq.	4.51E-01	6%	6.80E-03	< 1%	2.85E-03	< 1%	7.37E+00	94%	5.32E-03	< 1%
Ozone depletion	1.82E-06	kgCFC-11 eq.	2.77E-08	2%	1.38E-11	< 1%	2.00E-11	< 1%	1.79E-06	98%	1.24E-10	< 1%
Acidification of soils and water	5.64E-02	kgSO ₂ eq.	6.34E-04	1%	3.06E-05	< 1%	1.31E-05	< 1%	5.57E-02	99%	2.05E-05	< 1%
Water eutrophication	2.30E-03	kg(PO ₄)³- eq.	1.70E-04	7%	7.02E-06	< 1%	9.46E-06	< 1%	2.09E-03	91%	2.48E-05	1%
Photochemical ozone formation	2.72E-03	kgC ₂ H ₄ eq.	8.43E-05	3%	2.17E-06	< 1%	9.37E-07	< 1%	2.63E-03	97%	1.59E-06	< 1%
Depletion of abiotic resources - elements	1.45E-04	kgSb eq.	1.45E-04	100%	2.72E-10	< 1%	1.27E-10	< 1%	3.36E-07	< 1%	3.28E-10	< 1%
Total use of primary energy	1.34E+02	МЛ	6.74E+00	5%	9.12E-02	< 1%	3.70E-02	< 1%	1.27E+02	95%	5.72E-02	< 1%
Net use of fresh water	2.24E-02	m³	3.15E-03	14%	6.09E-07	< 1%	8.11E-07	< 1%	1.92E-02	86%	4.28E-06	< 1%
Depletion of abiotic resources - fossil fuels	8.26E+01	МЛ	6.48E+00	8%	9.56E-02	< 1%	4.00E-02	< 1%	7.59E+01	92%	7.52E-02	< 1%
Water pollution	4.60E+02	m³	1.49E+02	32%	1.12E+00	< 1%	4.39E-01	< 1%	3.09E+02	67%	6.20E-01	< 1%
Air pollution	3.77E+02	m³	5.96E+01	16%	2.79E-01	< 1%	2.52E-01	< 1%	3.16E+02	84%	5.91E-01	< 1%

The values of the 27 impacts defined in the PCR-ed3-EN-2015 04 02 are available in the digital database of pep-ecopassport.org website.

The environmental impacts refer to a complete configuration composed by switch and plate.

For the configuration with a color plate, the environmental impacts of each phase of the lifecycle are assimilated to the impacts of the Reference Product.

For the multi-gang configurations, the full environmental impacts of the Reference Product have to be multiplied by the number of installed products.

Registration N°: LGRP-00400-V01-01-EN	Drafting rules: «PEP-PCR-ed3-EN-2015 04 02» Supplemented by «PSR-0005-ed2-2016 03 29»		
Verifier accreditation N°: VH23	ww.pep-ecopassport.org		
Date of issue: 05-2017			
Independent verification of the declaration and data, in compliance Internal ☑ External □		PEP	
The PCR review was conducted by a panel of experts chaired by Phi	eco		
The elements of the present PEP cannot be compared with element	PASS		
Document in compliance with ISO 14025 : 2010: <code> </code>	PORT		
Environmental data in alignment with EN 15804 : 2012 + A1 : 2013			