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Product Environmental Profile

Mallia™ Shaver Socket - White





■ LEGRAND'S ENVIRONMENTAL COMMITMENTS

• Incorporate environmental management into our industrial sites

Of all Legrand sites worldwide, over 80% are ISO 14001-certified (sites belonging to the Group for more than five years).

• Involve the environment in product design

Provide our customers with all relevant information (composition, consumption, end of life, etc.). Reduce the environmental impact of products over their whole life cycle.

• Offer our customers environmentally friendly solutions

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



■ REFERENCE PRODUCT ■■

Function	Allow the connection to 230/120 V low voltage circuit, limited to 20 VA, equipped with a circuit separation transformer to isolate the user from the mains supply, protected against overloads and short circuits by built-in thermal relay, according to standards BS EN 62558-2-5, with a non-continuous operation during 20 years (household or similar purposes) at 30% of rated load.
Reference Product	Cat. No 2 811 35 Shaver socket - White

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 are representative of the following products:

Catalogue Numbers	Catalogue Numbers Plates	
• 2 811 35 (with plate)	• 2 819 01	
• 2 831 35	• 2 819 06	
• 2 833 35	• 2 819 51	
• 2 835 35	• 2 819 56	



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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. It does not contain substances covered by the RoHS Directive (2002/95/EC and its revision 2011/65/EC). It contains none of the 138 substances in the candidate list of the REACH regulation dated 19/12/2012.

Total weight of	
Reference Product	734 g (with unit packaging)

Plastics as % of weight	Metals as % of weight		Other as % of weight		
PC	10.0 %	Steel	48.3 %	Cables	10.5 %
PA	6.8 %	Copper alloys	1.1 %		
Other plastics	5.2 %				
PU	0.2 %				
				Packaging as % of weight	
PVC	< 0.1 %			Paper	17.5 %
				PP	0.5 %
Total plastics	22.1 %	Total metals	49.4 %	Total others and packaging	28.5 %

Estimated recycled material content: 38 % of weight.



MANUFACTURE

This Reference Product comes from sites that have 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 1235 km, by road from our warehouse to the local point of distribution into the market in Middle East.

Packaging is compliant with European directive 2004/12/EC concerning packaging and packaging waste. At their end of life the recyclability rate is 98 % (in % of packaging weight).



INSTALLATION I

Installation components not delivered with the product are not taken into account.



USE L

Servicing and maintenance:

under normal conditions of use, this type of product requires no servicing or maintenance.

Consumable

no consumables are necessary to use this type of product.





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■ END OF LIFE ■

Product end of life management is integrated into product design by the development teams. The disassembly and sorting of components or materials is made as easy as possible with a view to recycling or 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 85 %. This value is based on data collected from a technological channel operating on an industrial basis. It does not prejudge the effective use of the channel for electrical and electronic products at the end of their life.

plastic materials (excluding packaging)
metal materials (excluding packaging)
other materials (excluding packaging)
packaging (all types of materials)
18 %



■ 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 of products marketed and used in Middle East in compliance with associated product standards.

The following modelling elements were taken into account:

Manufacture	Unit packaging taken into account. As required by the «PEP ecopassport» programme all transport for the manufacturing of the Reference Product, including materials and components, has been taken in account
Distribution	Transport between the last Group distribution centre and an average delivery to the sales area.
Installation	Installation components not delivered with the product are not taken into account.
Use	 Under normal conditions of use, this type of product requires no servicing or maintenance. No consumables are necessary to use this type of product Product category: passif. Use scenario: no continuous operation for 20 years at 30 % of rated load, during 30 % of the time. This modelling duration does not constitute a minimum durability requirement. Electricity (Syria)- 2009.
End of life	In view of the data avalaible on the date of creation of the document, and in accordance with the requirements of the PCR of the «PEP ecopassport» programme, transport of the Reference Product by road only once, over a distance of 1000 km, to a processing site at end of life was counted.
Software used	EIME V5 and its database «Legrand-2012-10-31 version 3» made from the data base «CODDE-2012-07».



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■ ENVIRONMENTAL IMPACTS (continued)

		Total fo	or Life cycle	Raw material manufac	land	Distribu	ıtion	Installa	tion	Use		End of	life
	Global warming	3.05E+05	g~CO ₂ eq.	3.54E+03	1%	6.89E+01	< 1%	0.00E+00	0%	3.01E+05	99%	5.58E+01	< 1%
	Ozone depletion	1.52E-01	g~CFC-11 eq.	2.72E-03	2%	4.88E-05	< 1%	0.00E+00	0%	1.49E-01	98%	3.96E-05	< 1%
indicators	Water eutrophication	3.01E+00	g~PO₄³-eq.	5.22E-01	17%	1.15E-03	< 1%	0.00E+00	0%	2.49E+00	83%	9.30E-04	< 1%
	Photochemical ozone creation	2.18E+02	g~C ₂ H ₄ eq.	1.38E+00	< 1%	5.99E-02	< 1%	0.00E+00	0%	2.16E+02	99%	4.85E-02	< 1%
Mandatory	Air acidification	9.99E+01	g~H+ eq.	7.38E-01	< 1%	9.11E-03	< 1%	0.00E+00	0%	9.91E+01	99%	7.38E-03	< 1%
	Total energy depletion	4.42E+03	MJ	5.30E+01	1%	8.73E-01	< 1%	0.00E+00	0%	4.37E+03	99%	7.07E-01	< 1%
	Water depletion	3.30E+02	dm³	3.80E+01	12%	8.28E-02	< 1%	0.00E+00	0%	2.92E+02	88%	6.71E-02	< 1%

rs	Raw material depletion	1.36E-14	année ⁻¹	4.11E-15	30%	1.19E-18	< 1%	0.00E+00	0%	9.46E-15	70%	9.63E-19	< 1%
indicators	Air toxicity	1.22E+08	m³	1.51E+06	1%	1.35E+04	< 1%	0.00E+00	0%	1.21E+08	99%	1.09E+04	< 1%
onal	Water toxicity	4.92E+01	m³	1.33E+00	3%	9.62E-03	< 1%	0.00E+00	0%	4.78E+01	97%	7.79E-03	< 1%
Opti	Hazardous waste production	2.85E-01	kg	5.76E-02	20%	2.57E-05	< 1%	0.00E+00	0%	2.27E-01	80%	2.08E-05	< 1%

The environmental impacts of the Reference Product are representative of the products covered by the PEP, which therefore constitute a homgeneous environmental family.

For painted versions (Cat No: 2 831 35, 2 833 35, 2 835 35):

- Hazardous Waste Production and Water Toxicity indicators have to be multiplied by 1.1 for the Manufacturing phase (% excepted),
- Photochemical Ozone Creation indicator has to be multiplied by 1.2 for the Manufacturing phase (% excepted).

The values of these impacts are valid for the context specified in this document. They must not be used directly to draw up the environmental balance sheet for the installation.

Registration number: LGRP-2014-135-V1-EN	_	Drafting rule → PCR: PEP-PCR-ed 2.1-FR-2012 12 11 → PSR: PSR-0005-ed1-FR-2012 12 11				
Authorisation number of checker: VH02	Programme information: www.pep-	ecopassport.org				
Date of issue: 11-2014	Validity period: 4 years	Validity period: 4 years				
Independent verification of the declaration and data, in accounternal ☑ External ☐	PEP					
In accordance with ISO 14025: 2006 Type III environmental	eco					
The critical review of the PCR was conducted by a panel of	PASS					
The elements of the present PEP cannot be compared with	PORT®					