# Product Environmental Profile

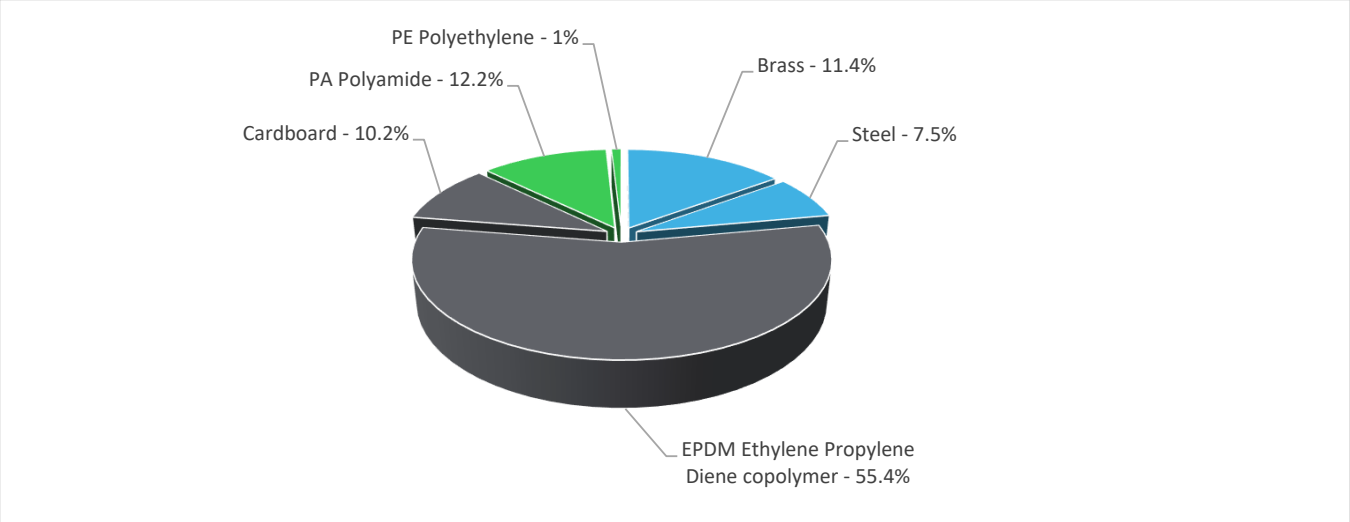
## RUBBER SCH PLUG

# General information

| | |
|---|---|
| **Representative product** | RUBBER SCH PLUG - MEG1221-9103 |
| **Description of the product** | The main purpose of High resistent Merten HD Plug product is to give aaccess to Electricity till the plug. |
| **Functional unit** | Connect/Disconnect during 20 years the plug of a load consuming 16A under a voltage of 250V while protecting the user from direct contact with live parts and with a protection class IP44 in accordance with standards IEC 60529.<br>The product is compliant with DIN 49441 standards,made of natural rubber, splash-proof plug with break-proof. |

# Constituent materials

| | | |
|---|---|---|
| **Reference product mass** | 89 g | including the product, its packaging. |




| | | |
|---|---|---|
| | Plastics | 12.7% |
| | Metals | 22.1% |
| | Others | 65.2% |

# Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 2 January 2013, amended in March 2015, 2015/863/EU and in November 2017, 2017/2102/EU) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers – PBDE), Bis (2-ethylhexyl)phthalate - DEHP, Benzyl butyl phthalate– BBP, Dibutyl phthalate - DBP, Diisobutyl phthalate - DIBP) as mentioned in the Directive.

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website

http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page

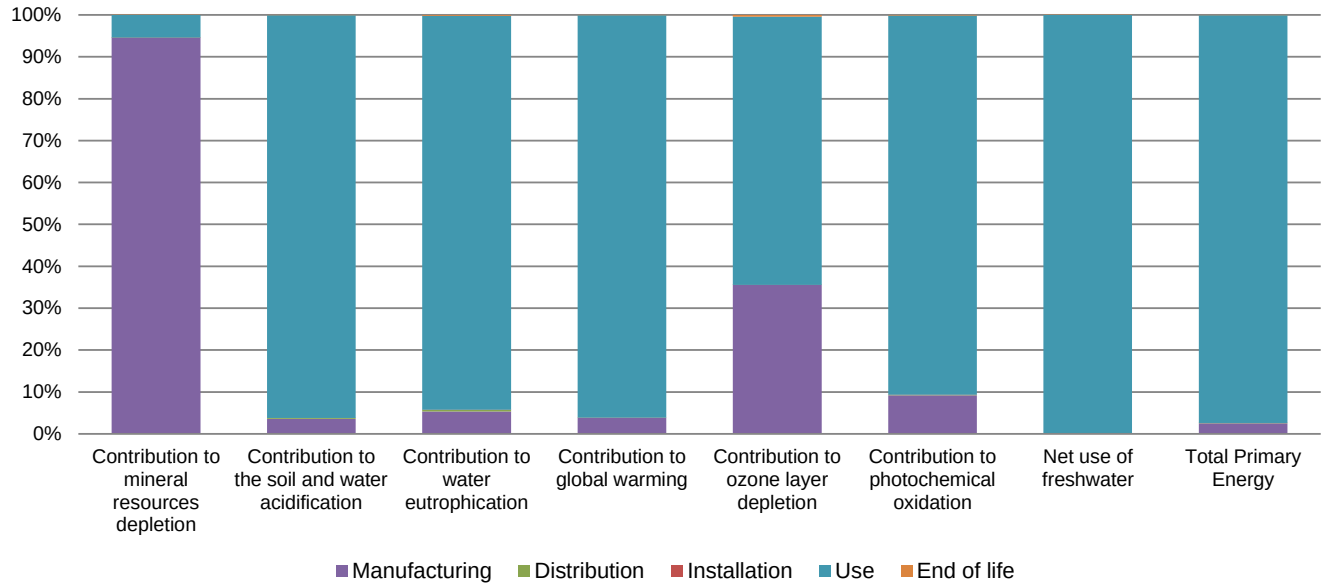
# Additional environmental information

| The RUBBER SCH PLUG presents the following relevent environmental aspects | |
|---|---|
| **Manufacturing** | Manufactured at a Schneider Electric production site ISO14001 certified |
| **Distribution** | Weight and volume of the packaging optimized, based on the European Union's packaging directive<br>Packaging weight is 9.6 g, consisting of Cardboard (91%), PE film (9%)<br>Product distribution optimised by setting up local distribution centres |
| **Installation** | The product does not require special installation procedure and requires little to no energy to install. The disposal of the packaging materials are accounted for during the installation phase (including transport to disposal). |
| **Use** | The product does not require special maintenance operations. |
| **End of life** | End of life optimized to decrease the amount of waste and allow recovery of the product components and materials<br>No special end-of-life treatment required. According to countries' practices this product can enter the usual end-of-life treatment process.<br>Recyclability potential: **19%** Based on "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME). |

# Environmental impacts

| | | | | |
|---|---|---|---|---|
| **Reference life time** | 20 years | | | |
| **Product category** | Power socket | | | |
| **Installation elements** | End of Life of packaging materials | | | |
| **Use scenario** | The product is in active mode 50% of the time with a power use of 0.3072W and in OFF mode 50% of the time with a power use of 0.0W for 20 years | | | |
| **Geographical representativeness** | Germany | | | |
| **Technological representativeness** | The Modules of Technologies such as material production, manufacturing process and transport technology used in this PEP analysis (LCA-EIME in this case) are Similar and representative of the actual type of technologies used to make the product in production. | | | |
| **Energy model used** | **Manufacturing** | **Installation** | **Use** | **End of life** |
| | Manufacturing plant location: ELDA,Poland | Electricity grid mix; AC; consumption mix, at consumer; 230V; DE | Electricity grid mix; AC; consumption mix, at consumer; 230V; DE | Electricity grid mix; AC; consumption mix, at consumer; 230V; DE |

| Compulsory indicators | RUBBER SCH PLUG - MEG1221-9103 | | | | | | |
|---|---|---|---|---|---|---|---|
| **Impact indicators** | **Unit** | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Contribution to mineral resources depletion | kg Sb eq | 2.41E-05 | 2.28E-05 | 0* | 0* | 1.31E-06 | 0* |
| Contribution to the soil and water acidification | kg $SO_2$ eq | 2.79E-02 | 1.00E-03 | 5.24E-05 | 0* | 2.68E-02 | 2.49E-05 |
| Contribution to water eutrophication | kg $PO_4^{3-}$ eq | 3.13E-03 | 1.68E-04 | 1.21E-05 | 8.03E-07 | 2.94E-03 | 7.69E-06 |
| Contribution to global warming | kg $CO_2$ eq | 1.75E+01 | 6.63E-01 | 1.15E-02 | 0* | 1.68E+01 | 1.66E-02 |
| Contribution to ozone layer depletion | kg CFC11 eq | 1.29E-07 | 4.60E-08 | 2.33E-11 | 0* | 8.27E-08 | 5.94E-10 |
| Contribution to photochemical oxidation | kg $C_2H_4$ eq | 1.96E-03 | 1.80E-04 | 3.74E-06 | 0* | 1.77E-03 | 2.53E-06 |
| **Resources use** | **Unit** | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Net use of freshwater | m3 | 4.07E+01 | 0* | 0* | 0* | 4.07E+01 | 0* |
| Total Primary Energy | MJ | 2.84E+02 | 7.20E+00 | 1.62E-01 | 0* | 2.77E+02 | 1.18E-01 |




| Optional indicators | RUBBER SCH PLUG - MEG1221-9103 | | | | | | |
|---|---|---|---|---|---|---|---|
| **Impact indicators** | **Unit** | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Contribution to fossil resources depletion | MJ | 1.74E+02 | 4.97E+00 | 1.61E-01 | 0* | 1.69E+02 | 9.48E-02 |
| Contribution to air pollution | m³ | 5.87E+02 | 1.12E+02 | 4.88E-01 | 0* | 4.74E+02 | 8.68E-01 |
| Contribution to water pollution | m³ | 9.55E+02 | 6.66E+01 | 1.89E+00 | 0* | 8.85E+02 | 1.13E+00 |
| **Resources use** | **Unit** | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Use of secondary material | kg | 1.54E-03 | 1.54E-03 | 0* | 0* | 0* | 0* |
| Total use of renewable primary energy resources | MJ | 4.03E+01 | 2.02E-01 | 0* | 0* | 4.01E+01 | 0* |
| Total use of non-renewable primary energy resources | MJ | 2.44E+02 | 7.00E+00 | 1.62E-01 | 0* | 2.36E+02 | 1.18E-01 |
| Use of renewable primary energy excluding renewable primary energy used as raw material | MJ | 4.02E+01 | 2.86E-02 | 0* | 0* | 4.01E+01 | 0* |
| Use of renewable primary energy resources used as raw material | MJ | 1.74E-01 | 1.74E-01 | 0* | 0* | 0* | 0* |
| Use of non renewable primary energy excluding non renewable primary energy used as raw material | MJ | 2.41E+02 | 4.15E+00 | 1.62E-01 | 0* | 2.36E+02 | 1.18E-01 |
| Use of non renewable primary energy resources used as raw material | MJ | 2.85E+00 | 2.85E+00 | 0* | 0* | 0* | 0* |
| Use of non renewable secondary fuels | MJ | 0.00E+00 | 0* | 0* | 0* | 0* | 0* |
| Use of renewable secondary fuels | MJ | 0.00E+00 | 0* | 0* | 0* | 0* | 0* |
| **Waste categories** | **Unit** | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Hazardous waste disposed | kg | 1.93E+00 | 1.78E+00 | 0* | 0* | 4.12E-03 | 1.44E-01 |
| Non hazardous waste disposed | kg | 9.21E+01 | 5.11E-01 | 0* | 0* | 9.16E+01 | 0* |
| Radioactive waste disposed | kg | 2.79E-02 | 2.21E-04 | 0* | 0* | 2.77E-02 | 0* |
| **Other environmental information** | **Unit** | Total | Manufacturing | Distribution | Installation | Use | End of Life |
| Materials for recycling | kg | 3.30E-02 | 8.77E-03 | 0* | 8.95E-03 | 0* | 1.53E-02 |
| Components for reuse | kg | 0.00E+00 | 0* | 0* | 0* | 0* | 0* |
| Materials for energy recovery | kg | 2.99E-03 | 0* | 0* | 0* | 0* | 2.99E-03 |
| Exported Energy | MJ | 2.77E-05 | 2.60E-06 | 0* | 2.51E-05 | 0* | 0* |

** represents less than 0.01% of the total life cycle of the reference flow*

*Life cycle assessment performed with EIME version EIME v5.9.3, database version 2016-11 in compliance with ISO14044.*

The use phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators) exept indicator ADPe is mostly in manufacturing phase & ODP impacting equally between manufacturing & use phase.

*Please note that the values given above are only valid within the context specified and cannot be used directly to draw up the environmental assessment of an installation.*

| | | | |
|---|---|---|---|
| *Registration number* | ENVPEP2110012_V1 | *Drafting rules* | PCR-ed3-EN-2015 04 02 |
| *Date of issue* | 02/2022 | *Supplemented by* | PSR-0005-ed2-EN-2016 03 29 |
| *Validity period* | 5 years | *Information and reference documents* | www.pep-ecopassport.org |

*Independent verification of the declaration and data*

Internal X External

*The elements of the present PEP cannot be compared with elements from another program.*

*Document in compliance with ISO 14021:2016 « Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) »*

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