

Environmental Profile

This LCA is calculated according to: ISO 14044, ISO 14040 and EN 15804

Ecochain v3.5.64



Product: 3011063 - Ed Tech Trap Coupler HTS 32x1 1/4"
Unit: 1 piece
Manufacturer: Wavin - IT - SM Maddalena

PP SWR (ED Tech) products made of PP for waste water discharge are the ideal solution for anyone who wants a quick and easy connection system. A push-fit system, made watertight using elastomeric seals. Triple-layer pipes, with a white inner layer for easier inspection. Low linear expansion.

LCA standard: EN15804+A2 (2019)
Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off
Externally verified: Yes
Issue date: 24-11-2022
End of validity: 24-11-2027
Verifier: Martijn van Hövell - SGS Search



This LCA was evaluated according to EN15804+A2. It was concluded that the LCA complies with this standard.

The LCA background information and project dossier have been registered in the online Ecochain application in the account Wavin - IT - SM Maddalena (2020). (☑ = module declared, MND = module not declared).

A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
☑	☑	☑	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	☑	☑	☑	☑
Product stage					Use stage							End-of-Life stage				
A1 Raw material supply A2 Transport A3 Manufacturing					B1 Use B2 Maintenance B3 Repair B4 Replacement B5 Refurbishment B6 Operational energy use B7 Operational water use							C1 De-construction demolition C2 Transport C3 Waste processing C4 Disposal				
Construction process stage												Benefits and loads beyond the system boundaries				
A4 Transport gate to site A5 Assembly / Construction installation process												D Reuse- Recovery- Recycling- potential				

Environmental impacts and parameters

GWP-total = EF Climate Change [kg CO2 eq]; **GWP-f** = EF Climate change - Fossil [kg CO2 eq]; **GWP-b** = EF Climate Change - Biogenic [kg CO2 eq]; **GWP-luluc** = EF Climate Change - Land use and LU change [kg CO2 eq]; **ODP** = EF Ozone depletion [kg CFC11 eq]; **AP** = EF Acidification [mol H+ eq]; **EP-fw** = EF Eutrophication, freshwater [kg P eq]; **EP-m** = EF Eutrophication, marine [kg N eq]; **EP-T** = EF Eutrophication, terrestrial [mol N eq]; **POCP** = EF Photochemical ozone formation [kg NMVOC eq]; **ADP-mm** = EF Resource use, minerals and metals [kg Sb eq]; **ADP-f** = EF Resource use, fossils [MJ]; **WDP** = EF Water use [m3 depriv.]; **PM** = EF Particulate matter [disease inc.]; **IR** = EF Ionising radiation [kBq U-235 eq]; **ETP-fw** = EF Ecotoxicity, freshwater [CTUe]; **HTP-c** = EF Human toxicity, cancer [CTUh]; **HTP-nc** = EF Human toxicity, non-cancer [CTUh]; **SQP** = EF Land use [Pt]; **PERE** = Use of renewable primary energy excluding renewable primary energy resources used as raw materials [MJ]; **PERM** = Use of renewable primary energy resources used as raw materials [MJ]; **PERT** = Total use of renewable primary energy resources [MJ]; **PENRE** = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials [MJ]; **PENRM** = Use of non-renewable primary energy resources used as raw materials [MJ]; **PENRT** = Total use of non-renewable primary energy resources [MJ]; **PET** = Total energy [MJ]; **SM** = Use of secondary material [kg]; **RSF** = Use of renewable secondary fuels [MJ]; **NRSF** = Use of non-renewable secondary fuels [MJ]; **FW** = Use of net fresh water [m3]; **HWD** = Hazardous waste disposed [kg]; **NHWD** = Non-hazardous waste disposed [kg]; **RWD** = Radioactive waste disposed [kg]; **CRU** = Components for re-use [kg]; **MFR** = Materials for recycling [kg]; **MER** = Materials for energy recovery [kg]; **EE** = Exported energy [MJ]; **EET** = Exported energy thermic [MJ]; **EEE** = Exported energy electric [MJ]

Statement of Confidentiality

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Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	7.17E-2	2.75E-3	2.55E-3	7.70E-2	4.74E-4	6.03E-2	2.23E-4	-3.92E-2	9.88E-2
GWP-f	kg CO2 eq	8.67E-2	2.75E-3	2.18E-3	9.16E-2	4.74E-4	4.28E-2	2.23E-4	-4.54E-2	8.97E-2
GWP-b	kg CO2 eq	-1.51E-2	1.67E-6	1.84E-4	-1.49E-2	2.88E-7	1.75E-2	1.93E-7	6.32E-3	8.94E-3
GWP-luluc	kg CO2 eq	8.98E-5	9.74E-7	1.84E-4	2.75E-4	1.68E-7	3.08E-6	4.02E-9	-5.67E-5	2.22E-4
ODP	kg CFC11 eq	3.80E-9	6.34E-10	2.19E-10	4.65E-9	1.09E-10	5.23E-10	5.62E-12	-3.33E-9	1.96E-9
AP	mol H+ eq	3.71E-4	1.57E-5	8.81E-6	3.95E-4	2.70E-6	2.28E-5	1.35E-7	-1.20E-4	3.01E-4
EP-fw	kg P eq	2.53E-6	2.27E-8	3.39E-8	2.58E-6	3.90E-9	9.20E-8	1.81E-10	-9.29E-7	1.75E-6
EP-m	kg N eq	7.04E-5	5.61E-6	1.49E-6	7.75E-5	9.66E-7	7.54E-6	8.55E-8	-2.59E-5	6.02E-5
EP-T	mol N eq	7.77E-4	6.18E-5	1.67E-5	8.55E-4	1.06E-5	8.32E-5	5.45E-7	-2.93E-4	6.57E-4
POCP	kg NMVOC eq	3.09E-4	1.77E-5	5.19E-6	3.32E-4	3.04E-6	2.51E-5	2.04E-7	-1.08E-4	2.52E-4
ADP-mm	kg Sb eq	1.19E-6	7.12E-8	5.32E-8	1.31E-6	1.23E-8	7.99E-8	1.38E-10	-2.33E-7	1.17E-6
ADP-f	MJ	2.43E+0	4.23E-2	2.87E-2	2.50E+0	7.27E-3	5.89E-2	4.11E-4	-1.10E+0	1.47E+0
WDP	m3 depriv.	4.91E-2	1.30E-4	1.02E-2	5.94E-2	2.23E-5	1.05E-3	2.84E-6	-2.32E-2	3.73E-2
PM	disease inc.	3.43E-9	2.48E-10	8.82E-11	3.77E-9	4.28E-11	3.43E-10	2.82E-12	-1.44E-9	2.71E-9
IR	kBq U-235 eq	2.53E-3	1.85E-4	2.68E-5	2.74E-3	3.18E-5	1.91E-4	1.89E-6	-9.17E-4	2.05E-3
ETP-fw	CTUe	1.66E+0	3.43E-2	4.53E-2	1.74E+0	5.91E-3	7.55E-2	3.44E-4	-6.53E-1	1.17E+0
HTP-c	CTUh	3.11E-11	1.22E-12	2.42E-12	3.48E-11	2.10E-13	1.15E-11	1.06E-14	-1.40E-11	3.25E-11
HTP-nc	CTUh	7.40E-10	4.09E-11	5.01E-11	8.31E-10	7.04E-12	1.22E-10	2.25E-13	-2.95E-10	6.65E-10
SQP	Pt	1.69E+0	3.61E-2	5.23E-3	1.73E+0	6.22E-3	4.57E-2	1.05E-3	-2.21E+0	-4.28E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	2.95E-1	6.06E-4	9.94E-2	3.95E-1	1.04E-4	2.70E-3	1.55E-5	-3.73E-1	2.53E-2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	2.95E-1	6.06E-4	9.94E-2	3.95E-1	1.04E-4	2.70E-3	1.55E-5	-3.73E-1	2.53E-2
PENRE	MJ	2.61E+0	4.49E-2	3.13E-2	2.68E+0	7.72E-3	6.27E-2	4.36E-4	-1.19E+0	1.56E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.61E+0	4.49E-2	3.13E-2	2.68E+0	7.72E-3	6.27E-2	4.36E-4	-1.19E+0	1.56E+0
PET	MJ	2.90E+0	4.55E-2	1.31E-1	3.08E+0	7.83E-3	6.54E-2	4.51E-4	-1.57E+0	1.59E+0
SM	kg	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0
FW	m3	1.00E-3	4.78E-6	2.41E-4	1.25E-3	8.23E-7	3.61E-5	5.03E-7	-4.64E-4	8.20E-4

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.05E-6	1.08E-7	2.79E-8	1.19E-6	1.86E-8	1.10E-7	5.02E-10	-6.72E-7	6.45E-7
NHWD	kg	6.55E-3	2.62E-3	2.72E-4	9.44E-3	4.51E-4	4.06E-3	1.80E-3	-1.75E-3	1.40E-2
RWD	kg	2.27E-6	2.87E-7	2.98E-8	2.59E-6	4.95E-8	2.50E-7	2.67E-9	-9.10E-7	1.98E-6
CRU	kg	0	0	0	0	0	0	0	0	0
MFR	kg	0	0	0	0	0	0	0	0	0
MER	kg	0	0	0	0	0	0	0	0	0
EE	MJ	0	0	0	0	0	0	0	0	0
EET	MJ	0	0	0	0	0	0	0	0	0
EEE	MJ	0	0	0	0	0	0	0	0	0



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