

Environmental Profile

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

Ecochain v3.5.64



Product: 3011005 - Ed Tech PP Coupler HTU 40
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					D Reuse- Recovery- Recycling- potential											
A5 Assembly / Construction installation process																

Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	8.66E-2	6.11E-3	4.20E-3	9.69E-2	9.26E-4	7.35E-2	4.97E-4	-4.67E-2	1.25E-1
GWP-f	kg CO2 eq	1.01E-1	6.11E-3	3.60E-3	1.11E-1	9.25E-4	5.53E-2	4.97E-4	-5.47E-2	1.13E-1
GWP-b	kg CO2 eq	-1.49E-2	3.71E-6	3.04E-4	-1.46E-2	5.62E-7	1.83E-2	4.50E-7	8.08E-3	1.17E-2
GWP-luluc	kg CO2 eq	9.60E-5	2.16E-6	3.04E-4	4.02E-4	3.27E-7	4.81E-6	8.98E-9	-7.20E-5	3.35E-4
ODP	kg CFC11 eq	1.04E-8	1.41E-9	3.61E-10	1.22E-8	2.13E-10	7.71E-10	1.28E-11	-3.65E-9	9.50E-9
AP	mol H+ eq	4.59E-4	3.48E-5	1.45E-5	5.09E-4	5.27E-6	3.33E-5	3.09E-7	-1.65E-4	3.83E-4
EP-fw	kg P eq	2.62E-6	5.03E-8	5.59E-8	2.72E-6	7.61E-9	1.44E-7	4.10E-10	-1.24E-6	1.63E-6
EP-m	kg N eq	8.25E-5	1.25E-5	2.45E-6	9.74E-5	1.89E-6	1.04E-5	3.15E-7	-3.36E-5	7.65E-5
EP-T	mol N eq	9.16E-4	1.37E-4	2.75E-5	1.08E-3	2.08E-5	1.15E-4	1.25E-6	-3.79E-4	8.39E-4
POCP	kg NMVOC eq	3.79E-4	3.92E-5	8.55E-6	4.26E-4	5.94E-6	3.46E-5	4.63E-7	-1.45E-4	3.23E-4
ADP-mm	kg Sb eq	1.39E-5	1.58E-7	8.76E-8	1.41E-5	2.39E-8	1.19E-7	3.10E-10	-7.47E-7	1.35E-5
ADP-f	MJ	3.13E+0	9.38E-2	4.73E-2	3.27E+0	1.42E-2	8.96E-2	9.36E-4	-1.46E+0	1.92E+0
WDP	m3 depriv.	6.54E-2	2.88E-4	1.67E-2	8.25E-2	4.36E-5	1.94E-3	5.25E-6	-3.27E-2	5.18E-2
PM	disease inc.	5.11E-9	5.51E-10	1.45E-10	5.80E-9	8.35E-11	4.86E-10	6.42E-12	-1.96E-9	4.42E-9
IR	kBq U-235 eq	4.44E-3	4.10E-4	4.41E-5	4.90E-3	6.21E-5	2.81E-4	4.38E-6	-1.28E-3	3.97E-3
ETP-fw	CTUe	2.13E+0	7.61E-2	7.47E-2	2.28E+0	1.15E-2	1.55E-1	1.13E-3	-8.50E-1	1.60E+0
HTP-c	CTUh	4.23E-11	2.71E-12	3.98E-12	4.90E-11	4.10E-13	1.24E-11	2.39E-14	-1.73E-11	4.45E-11
HTP-nc	CTUh	9.83E-10	9.08E-11	8.26E-11	1.16E-9	1.37E-11	1.66E-10	5.93E-13	-3.97E-10	9.39E-10
SQP	Pt	1.83E+0	8.02E-2	8.62E-3	1.92E+0	1.22E-2	6.80E-2	2.39E-3	-2.54E+0	-5.39E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.14E-1	1.35E-3	1.64E-1	4.79E-1	2.04E-4	4.26E-3	3.79E-5	-4.37E-1	4.67E-2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.14E-1	1.35E-3	1.64E-1	4.79E-1	2.04E-4	4.26E-3	3.79E-5	-4.37E-1	4.67E-2
PENRE	MJ	3.35E+0	9.95E-2	5.16E-2	3.50E+0	1.51E-2	9.55E-2	9.93E-4	-1.57E+0	2.04E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.35E+0	9.95E-2	5.16E-2	3.50E+0	1.51E-2	9.55E-2	9.93E-4	-1.57E+0	2.04E+0
PET	MJ	3.66E+0	1.01E-1	2.15E-1	3.98E+0	1.53E-2	9.98E-2	1.03E-3	-2.01E+0	2.09E+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	1.29E-3	1.06E-5	3.98E-4	1.70E-3	1.61E-6	8.89E-5	1.15E-6	-6.43E-4	1.15E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.08E-6	2.40E-7	4.60E-8	1.37E-6	3.63E-8	1.74E-7	1.13E-9	-7.00E-7	8.81E-7
NHWD	kg	7.77E-3	5.81E-3	4.48E-4	1.40E-2	8.80E-4	4.89E-3	4.10E-3	-2.23E-3	2.17E-2
RWD	kg	5.33E-6	6.38E-7	4.91E-8	6.02E-6	9.66E-8	3.62E-7	6.12E-9	-1.27E-6	5.21E-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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