

Environmental Profile

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

Ecochain v3.5.64



Product: 3080366 - ED Tech PP Pipe HTEM 50 L=0,5 S/PL
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	2.01E-1	1.94E-2	1.63E-2	2.36E-1	3.78E-3	1.87E-1	1.55E-3	-1.56E-1	2.72E-1
GWP-f	kg CO2 eq	2.72E-1	1.94E-2	1.45E-2	3.06E-1	3.78E-3	1.15E-1	1.55E-3	-1.56E-1	2.70E-1
GWP-b	kg CO2 eq	-7.10E-2	1.18E-5	9.18E-4	-7.01E-2	2.30E-6	7.16E-2	1.38E-6	-5.01E-4	1.03E-3
GWP-luluc	kg CO2 eq	1.24E-4	6.85E-6	8.26E-4	9.57E-4	1.34E-6	2.10E-5	2.91E-8	-4.94E-5	9.30E-4
ODP	kg CFC11 eq	1.13E-8	4.46E-9	1.58E-9	1.73E-8	8.71E-10	2.83E-9	4.35E-11	-6.82E-9	1.42E-8
AP	mol H+ eq	1.16E-3	1.10E-4	4.90E-5	1.32E-3	2.15E-5	1.20E-4	1.03E-6	-4.61E-4	1.00E-3
EP-fw	kg P eq	5.05E-6	1.59E-7	1.94E-7	5.40E-6	3.11E-8	6.10E-7	1.31E-9	-1.89E-6	4.15E-6
EP-m	kg N eq	1.87E-4	3.94E-5	9.36E-6	2.35E-4	7.70E-6	3.57E-5	7.02E-7	-8.67E-5	1.93E-4
EP-T	mol N eq	2.14E-3	4.35E-4	1.03E-4	2.67E-3	8.49E-5	3.93E-4	4.16E-6	-9.92E-4	2.16E-3
POCP	kg NMVOC eq	9.22E-4	1.24E-4	3.28E-5	1.08E-3	2.43E-5	1.23E-4	1.52E-6	-4.22E-4	8.05E-4
ADP-mm	kg Sb eq	1.18E-5	5.01E-7	2.66E-7	1.25E-5	9.78E-8	4.62E-7	1.03E-9	-1.29E-6	1.18E-5
ADP-f	MJ	9.09E+0	2.97E-1	2.00E-1	9.59E+0	5.80E-2	3.70E-1	3.15E-3	-4.75E+0	5.27E+0
WDP	m3 depriv.	1.90E-1	9.12E-4	4.59E-2	2.37E-1	1.78E-4	7.29E-3	1.78E-5	-8.11E-2	1.63E-1
PM	disease inc.	1.20E-8	1.75E-9	5.94E-10	1.44E-8	3.41E-10	1.94E-9	2.15E-11	-4.33E-9	1.23E-8
IR	kBq U-235 eq	6.99E-3	1.30E-3	1.95E-4	8.49E-3	2.54E-4	1.12E-3	1.45E-5	-2.47E-3	7.41E-3
ETP-fw	CTUe	2.29E+0	2.41E-1	2.41E-1	2.77E+0	4.71E-2	4.43E-1	2.76E-3	-8.95E-1	2.37E+0
HTP-c	CTUh	1.14E-10	8.58E-12	1.46E-11	1.38E-10	1.68E-12	5.24E-11	7.54E-14	-3.85E-11	1.53E-10
HTP-nc	CTUh	2.28E-9	2.88E-10	2.65E-10	2.83E-9	5.62E-11	6.27E-10	1.69E-12	-8.62E-10	2.65E-9
SQP	Pt	6.78E+0	2.54E-1	4.14E-2	7.07E+0	4.96E-2	2.96E-1	7.96E-3	-3.09E+0	4.34E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.08E+0	4.26E-3	4.46E-1	1.53E+0	8.32E-4	1.81E-2	1.15E-4	-5.42E-1	1.01E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.08E+0	4.26E-3	4.46E-1	1.53E+0	8.32E-4	1.81E-2	1.15E-4	-5.42E-1	1.01E+0
PENRE	MJ	9.75E+0	3.15E-1	2.19E-1	1.03E+1	6.16E-2	3.94E-1	3.34E-3	-5.13E+0	5.62E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	9.75E+0	3.15E-1	2.19E-1	1.03E+1	6.16E-2	3.94E-1	3.34E-3	-5.13E+0	5.62E+0
PET	MJ	1.08E+1	3.20E-1	6.65E-1	1.18E+1	6.24E-2	4.12E-1	3.46E-3	-5.67E+0	6.63E+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	3.16E-3	3.36E-5	1.09E-3	4.28E-3	6.57E-6	2.35E-4	3.86E-6	-1.25E-3	3.28E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.02E-6	7.60E-7	2.23E-7	3.00E-6	1.48E-7	6.17E-7	3.79E-9	-1.39E-6	2.38E-6
NHWD	kg	1.95E-2	1.84E-2	2.16E-3	4.01E-2	3.60E-3	1.91E-2	1.47E-2	-5.14E-3	7.23E-2
RWD	kg	7.10E-6	2.02E-6	2.38E-7	9.36E-6	3.95E-7	1.43E-6	2.06E-8	-2.34E-6	8.87E-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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