

Environmental Profile

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

Ecochain v3.5.64



Product: 3018470 - ED Tech PP Pipe HTEM 90 L=1,5 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	1.41E+0	1.17E-1	1.01E-1	1.63E+0	2.35E-2	8.30E-1	9.51E-3	-9.47E-1	1.55E+0
GWP-f	kg CO2 eq	1.59E+0	1.17E-1	9.02E-2	1.79E+0	2.35E-2	6.49E-1	9.51E-3	-9.44E-1	1.53E+0
GWP-b	kg CO2 eq	-1.75E-1	7.09E-5	5.71E-3	-1.69E-1	1.43E-5	1.81E-1	8.43E-6	-3.21E-3	7.98E-3
GWP-luluc	kg CO2 eq	5.41E-4	4.13E-5	5.13E-3	5.72E-3	8.31E-6	1.31E-4	1.74E-7	-2.43E-4	5.61E-3
ODP	kg CFC11 eq	4.28E-8	2.69E-8	9.82E-9	7.95E-8	5.41E-9	1.74E-8	2.66E-10	-3.76E-8	6.49E-8
AP	mol H+ eq	6.22E-3	6.65E-4	3.04E-4	7.19E-3	1.34E-4	7.26E-4	6.24E-6	-2.72E-3	5.33E-3
EP-fw	kg P eq	2.60E-5	9.60E-7	1.20E-6	2.81E-5	1.93E-7	3.80E-6	7.87E-9	-1.10E-5	2.11E-5
EP-m	kg N eq	1.00E-3	2.38E-4	5.82E-5	1.30E-3	4.78E-5	2.11E-4	4.04E-6	-4.96E-4	1.07E-3
EP-T	mol N eq	1.14E-2	2.62E-3	6.42E-4	1.46E-2	5.27E-4	2.33E-3	2.54E-5	-5.55E-3	1.20E-2
POCP	kg NMVOC eq	5.11E-3	7.49E-4	2.04E-4	6.06E-3	1.51E-4	7.34E-4	9.31E-6	-2.48E-3	4.47E-3
ADP-mm	kg Sb eq	3.96E-5	3.02E-6	1.65E-6	4.43E-5	6.07E-7	2.87E-6	6.24E-9	-6.86E-6	4.09E-5
ADP-f	MJ	5.51E+1	1.79E+0	1.24E+0	5.82E+1	3.60E-1	2.30E+0	1.92E-2	-2.94E+1	3.15E+1
WDP	m3 depriv.	1.12E+0	5.50E-3	2.85E-1	1.41E+0	1.11E-3	4.48E-2	9.76E-5	-5.07E-1	9.48E-1
PM	disease inc.	5.73E-8	1.05E-8	3.69E-9	7.15E-8	2.12E-9	1.19E-8	1.31E-10	-2.42E-8	6.15E-8
IR	kBq U-235 eq	3.36E-2	7.83E-3	1.21E-3	4.27E-2	1.57E-3	6.94E-3	8.86E-5	-1.45E-2	3.68E-2
ETP-fw	CTUe	1.05E+1	1.45E+0	1.49E+0	1.35E+1	2.93E-1	2.63E+0	1.60E-2	-4.48E+0	1.20E+1
HTP-c	CTUh	5.16E-10	5.18E-11	9.08E-11	6.59E-10	1.04E-11	3.09E-10	4.50E-13	-1.98E-10	7.80E-10
HTP-nc	CTUh	1.16E-8	1.73E-9	1.65E-9	1.49E-8	3.49E-10	3.82E-9	1.00E-11	-4.82E-9	1.43E-8
SQP	Pt	1.81E+1	1.53E+0	2.57E-1	1.98E+1	3.08E-1	1.84E+0	4.86E-2	-9.94E+0	1.21E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.15E+0	2.57E-2	2.77E+0	5.95E+0	5.17E-3	1.13E-1	7.01E-4	-1.80E+0	4.27E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.15E+0	2.57E-2	2.77E+0	5.95E+0	5.17E-3	1.13E-1	7.01E-4	-1.80E+0	4.27E+0
PENRE	MJ	5.92E+1	1.90E+0	1.36E+0	6.24E+1	3.83E-1	2.45E+0	2.04E-2	-3.16E+1	3.36E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	5.92E+1	1.90E+0	1.36E+0	6.24E+1	3.83E-1	2.45E+0	2.04E-2	-3.16E+1	3.36E+1
PET	MJ	6.23E+1	1.93E+0	4.13E+0	6.84E+1	3.88E-1	2.56E+0	2.11E-2	-3.35E+1	3.79E+1
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	1.76E-2	2.03E-4	6.78E-3	2.45E-2	4.08E-5	1.36E-3	2.36E-5	-7.71E-3	1.83E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	8.91E-6	4.58E-6	1.38E-6	1.49E-5	9.21E-7	3.76E-6	2.30E-8	-7.59E-6	1.20E-5
NHWD	kg	8.98E-2	1.11E-1	1.34E-2	2.14E-1	2.23E-2	1.14E-1	9.00E-2	-2.73E-2	4.13E-1
RWD	kg	3.15E-5	1.22E-5	1.48E-6	4.51E-5	2.45E-6	8.82E-6	1.26E-7	-1.34E-5	4.32E-5
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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