

Environmental Profile

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

Ecochain v3.5.64



Product: 3010735 - ED Tech PP Pipe HTEM 160 L=2 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	4.37E+0	4.01E-1	3.63E-1	5.13E+0	8.05E-2	3.35E+0	3.24E-2	-3.28E+0	5.31E+0
GWP-f	kg CO2 eq	5.48E+0	4.01E-1	3.24E-1	6.21E+0	8.05E-2	2.21E+0	3.24E-2	-3.27E+0	5.26E+0
GWP-b	kg CO2 eq	-1.12E+0	2.44E-4	2.05E-2	-1.10E+0	4.89E-5	1.14E+0	2.87E-5	-1.09E-2	2.83E-2
GWP-luluc	kg CO2 eq	2.12E-3	1.42E-4	1.85E-2	2.07E-2	2.85E-5	4.52E-4	5.94E-7	-1.05E-3	2.01E-2
ODP	kg CFC11 eq	1.54E-7	9.24E-8	3.53E-8	2.82E-7	1.85E-8	6.01E-8	9.09E-10	-1.35E-7	2.27E-7
AP	mol H+ eq	2.17E-2	2.28E-3	1.09E-3	2.50E-2	4.58E-4	2.51E-3	2.13E-5	-9.70E-3	1.83E-2
EP-fw	kg P eq	9.21E-5	3.30E-6	4.33E-6	9.97E-5	6.62E-7	1.31E-5	2.68E-8	-4.05E-5	7.30E-5
EP-m	kg N eq	3.55E-3	8.17E-4	2.09E-4	4.58E-3	1.64E-4	7.34E-4	1.38E-5	-1.80E-3	3.69E-3
EP-T	mol N eq	4.04E-2	9.01E-3	2.31E-3	5.17E-2	1.81E-3	8.09E-3	8.67E-5	-2.03E-2	4.13E-2
POCP	kg NMVOC eq	1.80E-2	2.58E-3	7.32E-4	2.13E-2	5.17E-4	2.55E-3	3.18E-5	-8.93E-3	1.54E-2
ADP-mm	kg Sb eq	1.36E-4	1.04E-5	5.93E-6	1.52E-4	2.08E-6	9.89E-6	2.13E-8	-2.43E-5	1.40E-4
ADP-f	MJ	1.89E+2	6.16E+0	4.47E+0	2.00E+2	1.24E+0	7.92E+0	6.57E-2	-1.01E+2	1.08E+2
WDP	m3 depriv.	3.83E+0	1.89E-2	1.02E+0	4.87E+0	3.79E-3	1.54E-1	3.34E-4	-1.74E+0	3.29E+0
PM	disease inc.	2.08E-7	3.62E-8	1.33E-8	2.57E-7	7.26E-9	4.13E-8	4.49E-10	-9.10E-8	2.15E-7
IR	kBq U-235 eq	1.18E-1	2.69E-2	4.36E-3	1.50E-1	5.40E-3	2.40E-2	3.03E-4	-5.24E-2	1.27E-1
ETP-fw	CTUe	3.80E+1	5.00E+0	5.37E+0	4.84E+1	1.00E+0	9.06E+0	5.45E-2	-1.73E+1	4.12E+1
HTP-c	CTUh	1.98E-9	1.78E-10	3.26E-10	2.48E-9	3.57E-11	1.07E-9	1.53E-12	-8.40E-10	2.75E-9
HTP-nc	CTUh	4.11E-8	5.96E-9	5.92E-9	5.30E-8	1.20E-9	1.32E-8	3.42E-11	-1.79E-8	4.95E-8
SQP	Pt	1.06E+2	5.27E+0	9.25E-1	1.12E+2	1.06E+0	6.34E+0	1.66E-1	-6.66E+1	5.26E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.71E+1	8.83E-2	9.96E+0	2.72E+1	1.77E-2	3.88E-1	2.39E-3	-1.11E+1	1.65E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.71E+1	8.83E-2	9.96E+0	2.72E+1	1.77E-2	3.88E-1	2.39E-3	-1.11E+1	1.65E+1
PENRE	MJ	2.03E+2	6.54E+0	4.89E+0	2.14E+2	1.31E+0	8.43E+0	6.97E-2	-1.09E+2	1.15E+2
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.03E+2	6.54E+0	4.89E+0	2.14E+2	1.31E+0	8.43E+0	6.97E-2	-1.09E+2	1.15E+2
PET	MJ	2.20E+2	6.62E+0	1.48E+1	2.41E+2	1.33E+0	8.82E+0	7.21E-2	-1.20E+2	1.32E+2
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	6.04E-2	6.97E-4	2.44E-2	8.55E-2	1.40E-4	4.66E-3	8.07E-5	-2.68E-2	6.36E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	3.40E-5	1.57E-5	4.97E-6	5.47E-5	3.16E-6	1.30E-5	7.87E-8	-2.83E-5	4.27E-5
NHWD	kg	3.30E-1	3.82E-1	4.82E-2	7.60E-1	7.66E-2	3.95E-1	3.08E-1	-1.11E-1	1.43E+0
RWD	kg	1.11E-4	4.19E-5	5.30E-6	1.59E-4	8.40E-6	3.05E-5	4.31E-7	-4.90E-5	1.49E-4
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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