

Environmental Profile

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

Ecochain v3.5.64



Product: 3010761 - ED Tech PP Pipe HTDM 125 L=0,5 S/S
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	9.85E-1	7.48E-2	6.66E-2	1.13E+0	1.63E-2	7.80E-1	6.87E-3	-6.90E-1	1.24E+0
GWP-f	kg CO2 eq	1.21E+0	7.47E-2	5.95E-2	1.34E+0	1.63E-2	5.58E-1	6.87E-3	-6.88E-1	1.23E+0
GWP-b	kg CO2 eq	-2.21E-1	4.54E-5	3.76E-3	-2.17E-1	9.87E-6	2.22E-1	6.15E-6	-2.09E-3	3.01E-3
GWP-luluc	kg CO2 eq	5.23E-4	2.64E-5	3.38E-3	3.93E-3	5.75E-6	8.89E-5	1.27E-7	-1.97E-4	3.83E-3
ODP	kg CFC11 eq	6.16E-8	1.72E-8	6.47E-9	8.52E-8	3.75E-9	1.20E-8	1.92E-10	-3.20E-8	6.92E-8
AP	mol H+ eq	5.04E-3	4.26E-4	2.01E-4	5.67E-3	9.26E-5	5.11E-4	4.52E-6	-1.94E-3	4.34E-3
EP-fw	kg P eq	2.26E-5	6.15E-7	7.93E-7	2.40E-5	1.34E-7	2.58E-6	5.73E-9	-7.96E-6	1.88E-5
EP-m	kg N eq	8.17E-4	1.52E-4	3.83E-5	1.01E-3	3.31E-5	1.51E-4	3.36E-6	-3.63E-4	8.32E-4
EP-T	mol N eq	9.30E-3	1.68E-3	4.23E-4	1.14E-2	3.65E-4	1.67E-3	1.83E-5	-4.11E-3	9.34E-3
POCP	kg NMVOC eq	4.12E-3	4.80E-4	1.34E-4	4.74E-3	1.04E-4	5.19E-4	6.72E-6	-1.78E-3	3.58E-3
ADP-mm	kg Sb eq	7.58E-5	1.93E-6	1.09E-6	7.88E-5	4.21E-7	1.95E-6	4.51E-9	-6.33E-6	7.49E-5
ADP-f	MJ	4.06E+1	1.15E+0	8.20E-1	4.26E+1	2.50E-1	1.56E+0	1.39E-2	-2.06E+1	2.38E+1
WDP	m3 depriv.	8.35E-1	3.52E-3	1.88E-1	1.03E+0	7.66E-4	3.15E-2	7.12E-5	-3.45E-1	7.14E-1
PM	disease inc.	5.11E-8	6.74E-9	2.43E-9	6.03E-8	1.47E-9	8.17E-9	9.48E-11	-1.78E-8	5.22E-8
IR	kBq U-235 eq	3.47E-2	5.01E-3	7.99E-4	4.05E-2	1.09E-3	4.74E-3	6.41E-5	-1.07E-2	3.57E-2
ETP-fw	CTUe	1.04E+1	9.31E-1	9.85E-1	1.23E+1	2.03E-1	1.98E+0	1.29E-2	-3.53E+0	1.09E+1
HTP-c	CTUh	4.60E-10	3.31E-11	5.98E-11	5.53E-10	7.21E-12	2.13E-10	3.29E-13	-1.59E-10	6.15E-10
HTP-nc	CTUh	9.81E-9	1.11E-9	1.09E-9	1.20E-8	2.42E-10	2.67E-9	7.60E-12	-3.55E-9	1.14E-8
SQP	Pt	2.17E+1	9.81E-1	1.70E-1	2.29E+1	2.14E-1	1.25E+0	3.51E-2	-1.12E+1	1.32E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.56E+0	1.65E-2	1.83E+0	5.40E+0	3.58E-3	7.66E-2	5.16E-4	-1.94E+0	3.55E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.56E+0	1.65E-2	1.83E+0	5.40E+0	3.58E-3	7.66E-2	5.16E-4	-1.94E+0	3.55E+0
PENRE	MJ	4.35E+1	1.22E+0	8.96E-1	4.57E+1	2.65E-1	1.67E+0	1.47E-2	-2.22E+1	2.54E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	4.35E+1	1.22E+0	8.96E-1	4.57E+1	2.65E-1	1.67E+0	1.47E-2	-2.22E+1	2.54E+1
PET	MJ	4.71E+1	1.23E+0	2.72E+0	5.11E+1	2.69E-1	1.74E+0	1.52E-2	-2.42E+1	2.89E+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	1.41E-2	1.30E-4	4.47E-3	1.87E-2	2.82E-5	1.08E-3	1.71E-5	-5.33E-3	1.45E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	8.84E-6	2.93E-6	9.11E-7	1.27E-5	6.38E-7	2.64E-6	1.66E-8	-6.38E-6	9.60E-6
NHWD	kg	7.87E-2	7.11E-2	8.84E-3	1.59E-1	1.55E-2	8.06E-2	6.46E-2	-2.12E-2	2.98E-1
RWD	kg	3.72E-5	7.80E-6	9.72E-7	4.59E-5	1.70E-6	6.02E-6	9.10E-8	-1.02E-5	4.35E-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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