

Environmental Profile

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

Ecochain v3.5.64



Product: 3080378 - ED Tech PP Pipe HTDM 50 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	2.47E-1	2.29E-2	1.83E-2	2.88E-1	4.33E-3	2.17E-1	1.80E-3	-1.80E-1	3.30E-1
GWP-f	kg CO2 eq	3.18E-1	2.29E-2	1.63E-2	3.57E-1	4.32E-3	1.45E-1	1.80E-3	-1.80E-1	3.29E-1
GWP-b	kg CO2 eq	-7.13E-2	1.39E-5	1.03E-3	-7.02E-2	2.62E-6	7.16E-2	1.61E-6	-5.49E-4	8.60E-4
GWP-luluc	kg CO2 eq	1.46E-4	8.10E-6	9.28E-4	1.08E-3	1.53E-6	2.37E-5	3.37E-8	-5.32E-5	1.05E-3
ODP	kg CFC11 eq	1.64E-8	5.27E-9	1.78E-9	2.34E-8	9.96E-10	3.21E-9	5.06E-11	-8.32E-9	1.94E-8
AP	mol H+ eq	1.36E-3	1.30E-4	5.50E-5	1.55E-3	2.46E-5	1.37E-4	1.19E-6	-5.14E-4	1.20E-3
EP-fw	kg P eq	6.09E-6	1.88E-7	2.18E-7	6.50E-6	3.56E-8	6.88E-7	1.52E-9	-2.10E-6	5.12E-6
EP-m	kg N eq	2.20E-4	4.67E-5	1.05E-5	2.77E-4	8.81E-6	4.07E-5	8.74E-7	-9.68E-5	2.30E-4
EP-T	mol N eq	2.51E-3	5.14E-4	1.16E-4	3.14E-3	9.71E-5	4.49E-4	4.84E-6	-1.10E-3	2.59E-3
POCP	kg NMVOC eq	1.09E-3	1.47E-4	3.68E-5	1.28E-3	2.77E-5	1.40E-4	1.77E-6	-4.71E-4	9.74E-4
ADP-mm	kg Sb eq	1.96E-5	5.92E-7	2.99E-7	2.05E-5	1.12E-7	5.21E-7	1.19E-9	-1.64E-6	1.95E-5
ADP-f	MJ	1.06E+1	3.51E-1	2.25E-1	1.12E+1	6.63E-2	4.18E-1	3.66E-3	-5.39E+0	6.25E+0
WDP	m3 depriv.	2.21E-1	1.08E-3	5.16E-2	2.73E-1	2.04E-4	8.38E-3	2.01E-5	-9.05E-2	1.91E-1
PM	disease inc.	1.42E-8	2.07E-9	6.67E-10	1.69E-8	3.90E-10	2.19E-9	2.50E-11	-4.76E-9	1.48E-8
IR	kBq U-235 eq	9.17E-3	1.54E-3	2.19E-4	1.09E-2	2.90E-4	1.27E-3	1.69E-5	-2.81E-3	9.70E-3
ETP-fw	CTUe	2.85E+0	2.85E-1	2.70E-1	3.40E+0	5.39E-2	5.24E-1	3.37E-3	-9.82E-1	3.00E+0
HTP-c	CTUh	1.31E-10	1.02E-11	1.64E-11	1.57E-10	1.92E-12	5.83E-11	8.74E-14	-4.19E-11	1.76E-10
HTP-nc	CTUh	2.69E-9	3.40E-10	2.98E-10	3.33E-9	6.42E-11	7.13E-10	2.00E-12	-9.52E-10	3.15E-9
SQP	Pt	6.93E+0	3.01E-1	4.65E-2	7.27E+0	5.68E-2	3.33E-1	9.25E-3	-3.11E+0	4.56E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.12E+0	5.04E-3	5.01E-1	1.63E+0	9.52E-4	2.04E-2	1.34E-4	-5.50E-1	1.10E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.12E+0	5.04E-3	5.01E-1	1.63E+0	9.52E-4	2.04E-2	1.34E-4	-5.50E-1	1.10E+0
PENRE	MJ	1.13E+1	3.73E-1	2.46E-1	1.20E+1	7.04E-2	4.45E-1	3.89E-3	-5.82E+0	6.67E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.13E+1	3.73E-1	2.46E-1	1.20E+1	7.04E-2	4.45E-1	3.89E-3	-5.82E+0	6.67E+0
PET	MJ	1.25E+1	3.78E-1	7.47E-1	1.36E+1	7.14E-2	4.66E-1	4.02E-3	-6.37E+0	7.76E+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	3.75E-3	3.98E-5	1.23E-3	5.02E-3	7.51E-6	2.85E-4	4.49E-6	-1.40E-3	3.92E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.46E-6	8.99E-7	2.50E-7	3.61E-6	1.70E-7	7.05E-7	4.40E-9	-1.66E-6	2.83E-6
NHWD	kg	2.24E-2	2.18E-2	2.42E-3	4.66E-2	4.11E-3	2.17E-2	1.71E-2	-5.61E-3	8.40E-2
RWD	kg	9.79E-6	2.39E-6	2.67E-7	1.24E-5	4.51E-7	1.61E-6	2.40E-8	-2.68E-6	1.19E-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



Ecochain Technologies BV
H.J.E. Wenckebachweg 123, 1096 AM Amsterdam, The Netherlands
<https://www.ecochain.com>
+31 20 3035 777