

Environmental Profile

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

Ecochain v3.5.64



Product: 3010995 - Ed Tech PP Branch HTDA 45° 90x40
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	3.13E-1	2.31E-2	1.95E-2	3.55E-1	3.82E-3	2.67E-1	1.93E-3	-1.81E-1	4.47E-1
GWP-f	kg CO2 eq	3.85E-1	2.31E-2	1.67E-2	4.25E-1	3.81E-3	1.76E-1	1.93E-3	-2.20E-1	3.87E-1
GWP-b	kg CO2 eq	-7.32E-2	1.40E-5	1.41E-3	-7.17E-2	2.32E-6	9.10E-2	1.72E-6	3.95E-2	5.87E-2
GWP-luluc	kg CO2 eq	3.92E-4	8.18E-6	1.41E-3	1.81E-3	1.35E-6	2.12E-5	3.41E-8	-3.47E-4	1.49E-3
ODP	kg CFC11 eq	2.90E-8	5.33E-9	1.68E-9	3.60E-8	8.79E-10	3.34E-9	4.92E-11	-1.34E-8	2.69E-8
AP	mol H+ eq	1.65E-3	1.32E-4	6.73E-5	1.85E-3	2.17E-5	1.40E-4	1.18E-6	-7.33E-4	1.28E-3
EP-fw	kg P eq	9.43E-6	1.90E-7	2.59E-7	9.88E-6	3.14E-8	6.30E-7	1.56E-9	-5.80E-6	4.74E-6
EP-m	kg N eq	3.10E-4	4.71E-5	1.14E-5	3.69E-4	7.77E-6	4.34E-5	1.03E-6	-1.48E-4	2.73E-4
EP-T	mol N eq	3.41E-3	5.19E-4	1.28E-4	4.05E-3	8.56E-5	4.77E-4	4.79E-6	-1.68E-3	2.94E-3
POCP	kg NMVOC eq	1.38E-3	1.48E-4	3.97E-5	1.57E-3	2.45E-5	1.46E-4	1.79E-6	-6.37E-4	1.10E-3
ADP-mm	kg Sb eq	3.36E-5	5.98E-7	4.06E-7	3.46E-5	9.86E-8	5.27E-7	1.19E-9	-2.45E-6	3.28E-5
ADP-f	MJ	1.21E+1	3.55E-1	2.20E-1	1.27E+1	5.85E-2	3.93E-1	3.60E-3	-6.09E+0	7.07E+0
WDP	m3 depriv.	2.49E-1	1.09E-3	7.77E-2	3.28E-1	1.80E-4	7.85E-3	1.94E-5	-1.50E-1	1.86E-1
PM	disease inc.	1.81E-8	2.09E-9	6.74E-10	2.08E-8	3.44E-10	2.15E-9	2.47E-11	-9.05E-9	1.43E-8
IR	kBq U-235 eq	1.36E-2	1.55E-3	2.05E-4	1.54E-2	2.56E-4	1.24E-3	1.68E-5	-5.64E-3	1.12E-2
ETP-fw	CTUe	8.32E+0	2.88E-1	3.47E-1	8.96E+0	4.75E-2	5.79E-1	3.80E-3	-4.01E+0	5.57E+0
HTP-c	CTUh	1.54E-10	1.03E-11	1.85E-11	1.82E-10	1.69E-12	5.44E-11	9.03E-14	-7.93E-11	1.59E-10
HTP-nc	CTUh	3.49E-9	3.43E-10	3.83E-10	4.21E-9	5.67E-11	6.94E-10	2.14E-12	-1.82E-9	3.15E-9
SQP	Pt	8.53E+0	3.04E-1	4.00E-2	8.88E+0	5.01E-2	3.01E-1	9.21E-3	-1.25E+1	-3.26E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.44E+0	5.09E-3	7.60E-1	2.21E+0	8.40E-4	1.86E-2	1.43E-4	-2.14E+0	8.64E-2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.44E+0	5.09E-3	7.60E-1	2.21E+0	8.40E-4	1.86E-2	1.43E-4	-2.14E+0	8.64E-2
PENRE	MJ	1.30E+1	3.77E-1	2.40E-1	1.36E+1	6.21E-2	4.19E-1	3.82E-3	-6.57E+0	7.53E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.30E+1	3.77E-1	2.40E-1	1.36E+1	6.21E-2	4.19E-1	3.82E-3	-6.57E+0	7.53E+0
PET	MJ	1.44E+1	3.82E-1	1.00E+0	1.58E+1	6.30E-2	4.37E-1	3.96E-3	-8.71E+0	7.62E+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	4.62E-3	4.02E-5	1.85E-3	6.50E-3	6.62E-6	3.06E-4	4.44E-6	-2.95E-3	3.86E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	3.68E-6	9.07E-7	2.13E-7	4.80E-6	1.50E-7	7.26E-7	4.34E-9	-2.64E-6	3.03E-6
NHWD	kg	2.82E-2	2.20E-2	2.08E-3	5.23E-2	3.63E-3	2.03E-2	1.58E-2	-1.02E-2	8.18E-2
RWD	kg	1.54E-5	2.41E-6	2.28E-7	1.80E-5	3.98E-7	1.60E-6	2.35E-8	-5.50E-6	1.46E-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