

Environmental Profile

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

Ecochain v3.5.64



Product: 3010964 - Ed Tech Branch Reduced HTEA 45° 110x50
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	4.22E-1	3.04E-2	2.81E-2	4.80E-1	5.30E-3	3.07E-1	2.63E-3	-2.51E-1	5.44E-1
GWP-f	kg CO2 eq	4.94E-1	3.04E-2	2.40E-2	5.48E-1	5.30E-3	2.17E-1	2.63E-3	-2.87E-1	4.87E-1
GWP-b	kg CO2 eq	-7.26E-2	1.84E-5	2.03E-3	-7.06E-2	3.22E-6	8.95E-2	2.33E-6	3.60E-2	5.49E-2
GWP-luluc	kg CO2 eq	4.02E-4	1.08E-5	2.03E-3	2.44E-3	1.88E-6	2.95E-5	4.60E-8	-3.38E-4	2.13E-3
ODP	kg CFC11 eq	3.01E-8	7.00E-9	2.41E-9	3.95E-8	1.22E-9	4.38E-9	6.67E-11	-1.56E-8	2.96E-8
AP	mol H+ eq	2.03E-3	1.73E-4	9.69E-5	2.30E-3	3.02E-5	1.84E-4	1.60E-6	-9.13E-4	1.60E-3
EP-fw	kg P eq	1.08E-5	2.50E-7	3.73E-7	1.14E-5	4.36E-8	8.68E-7	2.10E-9	-6.28E-6	6.07E-6
EP-m	kg N eq	3.70E-4	6.19E-5	1.64E-5	4.48E-4	1.08E-5	5.60E-5	1.29E-6	-1.79E-4	3.37E-4
EP-T	mol N eq	4.09E-3	6.82E-4	1.84E-4	4.96E-3	1.19E-4	6.16E-4	6.47E-6	-2.02E-3	3.68E-3
POCP	kg NMVOC eq	1.71E-3	1.95E-4	5.71E-5	1.96E-3	3.40E-5	1.90E-4	2.42E-6	-8.02E-4	1.38E-3
ADP-mm	kg Sb eq	3.42E-5	7.86E-7	5.85E-7	3.56E-5	1.37E-7	7.02E-7	1.61E-9	-2.85E-6	3.36E-5
ADP-f	MJ	1.61E+1	4.66E-1	3.16E-1	1.68E+1	8.13E-2	5.36E-1	4.87E-3	-8.24E+0	9.23E+0
WDP	m3 depriv.	3.26E-1	1.43E-3	1.12E-1	4.40E-1	2.50E-4	1.07E-2	2.62E-5	-1.83E-1	2.67E-1
PM	disease inc.	2.12E-8	2.74E-9	9.70E-10	2.49E-8	4.78E-10	2.88E-9	3.35E-11	-1.04E-8	1.79E-8
IR	kBq U-235 eq	1.53E-2	2.04E-3	2.95E-4	1.76E-2	3.56E-4	1.67E-3	2.27E-5	-6.45E-3	1.32E-2
ETP-fw	CTUe	8.48E+0	3.79E-1	4.99E-1	9.36E+0	6.61E-2	7.34E-1	4.84E-3	-4.04E+0	6.12E+0
HTP-c	CTUh	1.77E-10	1.35E-11	2.66E-11	2.18E-10	2.35E-12	7.40E-11	1.22E-13	-8.89E-11	2.05E-10
HTP-nc	CTUh	4.15E-9	4.51E-10	5.51E-10	5.15E-9	7.87E-11	9.33E-10	2.82E-12	-2.08E-9	4.09E-9
SQP	Pt	8.54E+0	3.99E-1	5.76E-2	8.99E+0	6.96E-2	4.16E-1	1.25E-2	-1.20E+1	-2.49E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.47E+0	6.69E-3	1.09E+0	2.57E+0	1.17E-3	2.57E-2	1.92E-4	-2.06E+0	5.34E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.47E+0	6.69E-3	1.09E+0	2.57E+0	1.17E-3	2.57E-2	1.92E-4	-2.06E+0	5.34E-1
PENRE	MJ	1.72E+1	4.95E-1	3.45E-1	1.81E+1	8.64E-2	5.71E-1	5.17E-3	-8.88E+0	9.85E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.72E+1	4.95E-1	3.45E-1	1.81E+1	8.64E-2	5.71E-1	5.17E-3	-8.88E+0	9.85E+0
PET	MJ	1.87E+1	5.02E-1	1.44E+0	2.06E+1	8.75E-2	5.96E-1	5.36E-3	-1.09E+1	1.04E+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	5.74E-3	5.28E-5	2.66E-3	8.45E-3	9.21E-6	3.86E-4	6.01E-6	-3.40E-3	5.45E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	4.08E-6	1.19E-6	3.07E-7	5.58E-6	2.08E-7	9.53E-7	5.88E-9	-3.08E-6	3.66E-6
NHWD	kg	3.20E-2	2.89E-2	2.99E-3	6.39E-2	5.04E-3	2.72E-2	2.14E-2	-1.17E-2	1.06E-1
RWD	kg	1.67E-5	3.17E-6	3.28E-7	2.02E-5	5.53E-7	2.14E-6	3.18E-8	-6.21E-6	1.67E-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