

Environmental Profile

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

Ecochain v3.5.64



Product: 3010978 - Ed Tech Branch Reduced HTEA 87,5° 75x50
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	2.17E-1	1.44E-2	1.40E-2	2.45E-1	2.71E-3	1.72E-1	1.36E-3	-1.30E-1	2.92E-1
GWP-f	kg CO2 eq	2.61E-1	1.43E-2	1.19E-2	2.87E-1	2.70E-3	1.19E-1	1.36E-3	-1.50E-1	2.61E-1
GWP-b	kg CO2 eq	-4.39E-2	8.71E-6	1.01E-3	-4.28E-2	1.64E-6	5.28E-2	1.21E-6	1.96E-2	2.96E-2
GWP-luluc	kg CO2 eq	2.23E-4	5.08E-6	1.01E-3	1.24E-3	9.57E-7	1.49E-5	2.39E-8	-1.84E-4	1.07E-3
ODP	kg CFC11 eq	1.80E-8	3.31E-9	1.20E-9	2.25E-8	6.23E-10	2.25E-9	3.46E-11	-8.53E-9	1.69E-8
AP	mol H+ eq	1.09E-3	8.17E-5	4.82E-5	1.22E-3	1.54E-5	9.48E-5	8.31E-7	-4.75E-4	8.58E-4
EP-fw	kg P eq	5.94E-6	1.18E-7	1.86E-7	6.24E-6	2.22E-8	4.40E-7	1.09E-9	-3.34E-6	3.36E-6
EP-m	kg N eq	2.00E-4	2.92E-5	8.14E-6	2.37E-4	5.51E-6	2.91E-5	7.02E-7	-9.43E-5	1.78E-4
EP-T	mol N eq	2.21E-3	3.22E-4	9.14E-5	2.62E-3	6.07E-5	3.20E-4	3.36E-6	-1.06E-3	1.94E-3
POCP	kg NMVOC eq	9.19E-4	9.21E-5	2.84E-5	1.04E-3	1.74E-5	9.83E-5	1.25E-6	-4.18E-4	7.37E-4
ADP-mm	kg Sb eq	2.14E-5	3.71E-7	2.91E-7	2.21E-5	6.99E-8	3.58E-7	8.36E-10	-1.59E-6	2.09E-5
ADP-f	MJ	8.39E+0	2.20E-1	1.57E-1	8.77E+0	4.15E-2	2.72E-1	2.53E-3	-4.23E+0	4.85E+0
WDP	m3 depriv.	1.71E-1	6.76E-4	5.56E-2	2.27E-1	1.27E-4	5.48E-3	1.35E-5	-9.45E-2	1.38E-1
PM	disease inc.	1.16E-8	1.29E-9	4.82E-10	1.34E-8	2.44E-10	1.47E-9	1.74E-11	-5.50E-9	9.65E-9
IR	kBq U-235 eq	8.75E-3	9.62E-4	1.47E-4	9.85E-3	1.81E-4	8.49E-4	1.18E-5	-3.43E-3	7.47E-3
ETP-fw	CTUe	4.71E+0	1.79E-1	2.48E-1	5.13E+0	3.37E-2	3.89E-1	2.61E-3	-2.18E+0	3.38E+0
HTP-c	CTUh	9.85E-11	6.36E-12	1.32E-11	1.18E-10	1.20E-12	3.75E-11	6.33E-14	-4.85E-11	1.08E-10
HTP-nc	CTUh	2.26E-9	2.13E-10	2.74E-10	2.75E-9	4.02E-11	4.78E-10	1.49E-12	-1.10E-9	2.17E-9
SQP	Pt	5.01E+0	1.88E-1	2.86E-2	5.23E+0	3.55E-2	2.10E-1	6.47E-3	-6.80E+0	-1.32E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	8.50E-1	3.16E-3	5.44E-1	1.40E+0	5.95E-4	1.30E-2	1.00E-4	-1.16E+0	2.49E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	8.50E-1	3.16E-3	5.44E-1	1.40E+0	5.95E-4	1.30E-2	1.00E-4	-1.16E+0	2.49E-1
PENRE	MJ	8.99E+0	2.34E-1	1.71E-1	9.40E+0	4.41E-2	2.90E-1	2.68E-3	-4.56E+0	5.17E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	8.99E+0	2.34E-1	1.71E-1	9.40E+0	4.41E-2	2.90E-1	2.68E-3	-4.56E+0	5.17E+0
PET	MJ	9.84E+0	2.37E-1	7.15E-1	1.08E+1	4.47E-2	3.03E-1	2.78E-3	-5.72E+0	5.42E+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	3.08E-3	2.49E-5	1.32E-3	4.43E-3	4.70E-6	2.08E-4	3.12E-6	-1.78E-3	2.86E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.30E-6	5.63E-7	1.53E-7	3.02E-6	1.06E-7	4.92E-7	3.05E-9	-1.69E-6	1.93E-6
NHWD	kg	1.77E-2	1.36E-2	1.49E-3	3.28E-2	2.57E-3	1.40E-2	1.11E-2	-6.29E-3	5.42E-2
RWD	kg	9.80E-6	1.50E-6	1.63E-7	1.15E-5	2.82E-7	1.09E-6	1.65E-8	-3.32E-6	9.53E-6
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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