

Environmental Profile

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

Ecochain v3.5.64



Product: 3010782 - Ed Tech PP Bend HTB 87,5° 50
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	1.02E-1	7.06E-3	6.30E-3	1.15E-1	1.23E-3	7.11E-2	6.13E-4	-5.80E-2	1.30E-1
GWP-f	kg CO2 eq	1.16E-1	7.05E-3	5.39E-3	1.28E-1	1.23E-3	5.25E-2	6.13E-4	-6.67E-2	1.16E-1
GWP-b	kg CO2 eq	-1.45E-2	4.28E-6	4.56E-4	-1.41E-2	7.45E-7	1.86E-2	5.44E-7	8.72E-3	1.32E-2
GWP-luluc	kg CO2 eq	9.59E-5	2.50E-6	4.55E-4	5.54E-4	4.34E-7	6.78E-6	1.08E-8	-7.97E-5	4.81E-4
ODP	kg CFC11 eq	7.61E-9	1.63E-9	5.41E-10	9.77E-9	2.83E-10	1.01E-9	1.56E-11	-3.69E-9	7.39E-9
AP	mol H+ eq	4.81E-4	4.02E-5	2.18E-5	5.43E-4	6.99E-6	4.27E-5	3.74E-7	-2.10E-4	3.83E-4
EP-fw	kg P eq	2.59E-6	5.80E-8	8.38E-8	2.73E-6	1.01E-8	2.00E-7	4.92E-10	-1.47E-6	1.47E-6
EP-m	kg N eq	8.75E-5	1.44E-5	3.67E-6	1.06E-4	2.50E-6	1.30E-5	3.09E-7	-4.13E-5	8.01E-5
EP-T	mol N eq	9.68E-4	1.58E-4	4.13E-5	1.17E-3	2.75E-5	1.43E-4	1.51E-6	-4.65E-4	8.76E-4
POCP	kg NMVOC eq	4.03E-4	4.53E-5	1.28E-5	4.61E-4	7.87E-6	4.42E-5	5.65E-7	-1.84E-4	3.29E-4
ADP-mm	kg Sb eq	8.96E-6	1.82E-7	1.31E-7	9.28E-6	3.17E-8	1.62E-7	3.77E-10	-6.88E-7	8.78E-6
ADP-f	MJ	3.75E+0	1.08E-1	7.10E-2	3.93E+0	1.88E-2	1.23E-1	1.14E-3	-1.90E+0	2.17E+0
WDP	m3 depriv.	7.66E-2	3.32E-4	2.51E-2	1.02E-1	5.78E-5	2.48E-3	6.18E-6	-4.26E-2	6.20E-2
PM	disease inc.	5.05E-9	6.37E-10	2.18E-10	5.90E-9	1.11E-10	6.63E-10	7.82E-12	-2.39E-9	4.30E-9
IR	kBq U-235 eq	3.76E-3	4.73E-4	6.62E-5	4.30E-3	8.23E-5	3.84E-4	5.30E-6	-1.51E-3	3.27E-3
ETP-fw	CTUe	2.06E+0	8.79E-2	1.12E-1	2.26E+0	1.53E-2	1.73E-1	1.16E-3	-9.55E-1	1.49E+0
HTP-c	CTUh	4.15E-11	3.13E-12	5.97E-12	5.06E-11	5.44E-13	1.71E-11	2.85E-14	-2.00E-11	4.83E-11
HTP-nc	CTUh	9.89E-10	1.05E-10	1.24E-10	1.22E-9	1.82E-11	2.16E-10	6.66E-13	-4.81E-10	9.71E-10
SQP	Pt	1.81E+0	9.26E-2	1.29E-2	1.92E+0	1.61E-2	9.55E-2	2.92E-3	-2.68E+0	-6.46E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.18E-1	1.55E-3	2.46E-1	5.65E-1	2.70E-4	5.91E-3	4.50E-5	-4.66E-1	1.06E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.18E-1	1.55E-3	2.46E-1	5.65E-1	2.70E-4	5.91E-3	4.50E-5	-4.66E-1	1.06E-1
PENRE	MJ	4.02E+0	1.15E-1	7.74E-2	4.22E+0	2.00E-2	1.31E-1	1.21E-3	-2.05E+0	2.32E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	4.02E+0	1.15E-1	7.74E-2	4.22E+0	2.00E-2	1.31E-1	1.21E-3	-2.05E+0	2.32E+0
PET	MJ	4.34E+0	1.17E-1	3.23E-1	4.78E+0	2.03E-2	1.37E-1	1.25E-3	-2.52E+0	2.42E+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	1.37E-3	1.23E-5	5.97E-4	1.97E-3	2.13E-6	9.21E-5	1.40E-6	-7.96E-4	1.27E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	9.79E-7	2.77E-7	6.90E-8	1.32E-6	4.81E-8	2.21E-7	1.37E-9	-7.23E-7	8.73E-7
NHWD	kg	7.60E-3	6.71E-3	6.72E-4	1.50E-2	1.17E-3	6.32E-3	5.01E-3	-2.63E-3	2.48E-2
RWD	kg	4.17E-6	7.36E-7	7.36E-8	4.98E-6	1.28E-7	4.94E-7	7.44E-9	-1.45E-6	4.16E-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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