

Environmental Profile

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

Ecochain v3.5.64



Product: 3018742 - Ed Tech PP Bend HTB 30° 110
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	3.24E-1	2.42E-2	2.22E-2	3.70E-1	4.18E-3	2.58E-1	2.07E-3	-1.96E-1	4.39E-1
GWP-f	kg CO2 eq	3.96E-1	2.42E-2	1.90E-2	4.39E-1	4.18E-3	1.68E-1	2.07E-3	-2.32E-1	3.82E-1
GWP-b	kg CO2 eq	-7.26E-2	1.47E-5	1.61E-3	-7.10E-2	2.54E-6	8.95E-2	1.83E-6	3.62E-2	5.47E-2
GWP-luluc	kg CO2 eq	3.65E-4	8.57E-6	1.60E-3	1.98E-3	1.48E-6	2.36E-5	3.61E-8	-3.28E-4	1.68E-3
ODP	kg CFC11 eq	2.39E-8	5.58E-9	1.91E-9	3.14E-8	9.63E-10	3.58E-9	5.23E-11	-1.29E-8	2.31E-8
AP	mol H+ eq	1.63E-3	1.38E-4	7.67E-5	1.84E-3	2.38E-5	1.49E-4	1.26E-6	-7.71E-4	1.25E-3
EP-fw	kg P eq	8.99E-6	1.99E-7	2.95E-7	9.48E-6	3.44E-8	6.96E-7	1.65E-9	-5.73E-6	4.49E-6
EP-m	kg N eq	3.06E-4	4.93E-5	1.29E-5	3.68E-4	8.52E-6	4.58E-5	9.96E-7	-1.53E-4	2.70E-4
EP-T	mol N eq	3.36E-3	5.44E-4	1.45E-4	4.05E-3	9.38E-5	5.03E-4	5.08E-6	-1.73E-3	2.92E-3
POCP	kg NMVOC eq	1.38E-3	1.55E-4	4.52E-5	1.58E-3	2.68E-5	1.55E-4	1.90E-6	-6.73E-4	1.09E-3
ADP-mm	kg Sb eq	2.55E-5	6.26E-7	4.63E-7	2.66E-5	1.08E-7	5.73E-7	1.26E-9	-2.29E-6	2.50E-5
ADP-f	MJ	1.28E+1	3.72E-1	2.50E-1	1.34E+1	6.41E-2	4.32E-1	3.82E-3	-6.60E+0	7.27E+0
WDP	m3 depriv.	2.59E-1	1.14E-3	8.85E-2	3.49E-1	1.97E-4	8.45E-3	2.04E-5	-1.56E-1	2.01E-1
PM	disease inc.	1.74E-8	2.19E-9	7.68E-10	2.03E-8	3.77E-10	2.34E-9	2.63E-11	-9.20E-9	1.39E-8
IR	kBq U-235 eq	1.22E-2	1.62E-3	2.33E-4	1.40E-2	2.80E-4	1.36E-3	1.78E-5	-5.66E-3	1.00E-2
ETP-fw	CTUe	7.62E+0	3.02E-1	3.95E-1	8.31E+0	5.21E-2	5.89E-1	3.76E-3	-3.83E+0	5.13E+0
HTP-c	CTUh	1.48E-10	1.07E-11	2.10E-11	1.80E-10	1.85E-12	5.98E-11	9.53E-14	-8.01E-11	1.62E-10
HTP-nc	CTUh	3.38E-9	3.60E-10	4.36E-10	4.18E-9	6.21E-11	7.50E-10	2.20E-12	-1.84E-9	3.15E-9
SQP	Pt	8.32E+0	3.18E-1	4.56E-2	8.68E+0	5.49E-2	3.34E-1	9.80E-3	-1.19E+1	-2.85E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.41E+0	5.33E-3	8.65E-1	2.28E+0	9.20E-4	2.05E-2	1.51E-4	-2.04E+0	2.57E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.41E+0	5.33E-3	8.65E-1	2.28E+0	9.20E-4	2.05E-2	1.51E-4	-2.04E+0	2.57E-1
PENRE	MJ	1.37E+1	3.94E-1	2.73E-1	1.43E+1	6.81E-2	4.60E-1	4.06E-3	-7.12E+0	7.76E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.37E+1	3.94E-1	2.73E-1	1.43E+1	6.81E-2	4.60E-1	4.06E-3	-7.12E+0	7.76E+0
PET	MJ	1.51E+1	4.00E-1	1.14E+0	1.66E+1	6.90E-2	4.80E-1	4.21E-3	-9.16E+0	8.02E+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	4.59E-3	4.20E-5	2.10E-3	6.73E-3	7.26E-6	3.03E-4	4.71E-6	-2.99E-3	4.05E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	3.39E-6	9.50E-7	2.43E-7	4.59E-6	1.64E-7	7.73E-7	4.61E-9	-2.59E-6	2.94E-6
NHWD	kg	2.69E-2	2.30E-2	2.37E-3	5.23E-2	3.98E-3	2.18E-2	1.68E-2	-1.04E-2	8.45E-2
RWD	kg	1.32E-5	2.53E-6	2.59E-7	1.60E-5	4.36E-7	1.75E-6	2.50E-8	-5.45E-6	1.27E-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



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