

Environmental Profile

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

Ecochain v3.5.64



Product: 3069806 - Ed Tech PP Eccentric Reducer 110x90
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	1.98E-1	1.38E-2	1.20E-2	2.24E-1	2.36E-3	1.42E-1	1.19E-3	-1.12E-1	2.57E-1
GWP-f	kg CO2 eq	2.27E-1	1.38E-2	1.03E-2	2.51E-1	2.36E-3	1.05E-1	1.19E-3	-1.30E-1	2.29E-1
GWP-b	kg CO2 eq	-2.92E-2	8.36E-6	8.68E-4	-2.83E-2	1.43E-6	3.71E-2	1.06E-6	1.75E-2	2.63E-2
GWP-luluc	kg CO2 eq	1.92E-4	4.87E-6	8.67E-4	1.06E-3	8.36E-7	1.30E-5	2.10E-8	-1.59E-4	9.19E-4
ODP	kg CFC11 eq	1.57E-8	3.17E-9	1.03E-9	2.00E-8	5.44E-10	1.96E-9	3.02E-11	-7.34E-9	1.51E-8
AP	mol H+ eq	9.50E-4	7.84E-5	4.14E-5	1.07E-3	1.34E-5	8.25E-5	7.26E-7	-4.08E-4	7.58E-4
EP-fw	kg P eq	5.16E-6	1.13E-7	1.60E-7	5.43E-6	1.94E-8	3.84E-7	9.57E-10	-2.89E-6	2.94E-6
EP-m	kg N eq	1.73E-4	2.81E-5	7.00E-6	2.08E-4	4.81E-6	2.53E-5	6.14E-7	-8.05E-5	1.58E-4
EP-T	mol N eq	1.91E-3	3.09E-4	7.86E-5	2.30E-3	5.30E-5	2.78E-4	2.94E-6	-9.06E-4	1.73E-3
POCP	kg NMVOC eq	7.94E-4	8.84E-5	2.44E-5	9.07E-4	1.52E-5	8.56E-5	1.10E-6	-3.57E-4	6.51E-4
ADP-mm	kg Sb eq	1.89E-5	3.56E-7	2.50E-7	1.95E-5	6.11E-8	3.12E-7	7.31E-10	-1.38E-6	1.85E-5
ADP-f	MJ	7.30E+0	2.11E-1	1.35E-1	7.64E+0	3.62E-2	2.37E-1	2.21E-3	-3.67E+0	4.24E+0
WDP	m3 depriv.	1.49E-1	6.48E-4	4.78E-2	1.98E-1	1.11E-4	4.79E-3	1.20E-5	-8.26E-2	1.20E-1
PM	disease inc.	1.00E-8	1.24E-9	4.15E-10	1.17E-8	2.13E-10	1.28E-9	1.52E-11	-4.67E-9	8.54E-9
IR	kBq U-235 eq	7.62E-3	9.24E-4	1.26E-4	8.67E-3	1.58E-4	7.39E-4	1.03E-5	-2.95E-3	6.63E-3
ETP-fw	CTUe	4.14E+0	1.72E-1	2.13E-1	4.52E+0	2.94E-2	3.40E-1	2.29E-3	-1.89E+0	3.00E+0
HTP-c	CTUh	8.27E-11	6.11E-12	1.14E-11	1.00E-10	1.05E-12	3.28E-11	5.55E-14	-3.92E-11	9.49E-11
HTP-nc	CTUh	1.96E-9	2.05E-10	2.36E-10	2.40E-9	3.51E-11	4.18E-10	1.30E-12	-9.42E-10	1.92E-9
SQP	Pt	3.63E+0	1.81E-1	2.46E-2	3.84E+0	3.10E-2	1.83E-1	5.66E-3	-5.35E+0	-1.30E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	6.35E-1	3.03E-3	4.68E-1	1.11E+0	5.20E-4	1.13E-2	8.76E-5	-9.29E-1	1.89E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	6.35E-1	3.03E-3	4.68E-1	1.11E+0	5.20E-4	1.13E-2	8.76E-5	-9.29E-1	1.89E-1
PENRE	MJ	7.82E+0	2.24E-1	1.47E-1	8.19E+0	3.85E-2	2.53E-1	2.34E-3	-3.96E+0	4.53E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	7.82E+0	2.24E-1	1.47E-1	8.19E+0	3.85E-2	2.53E-1	2.34E-3	-3.96E+0	4.53E+0
PET	MJ	8.46E+0	2.27E-1	6.15E-1	9.30E+0	3.90E-2	2.64E-1	2.43E-3	-4.89E+0	4.71E+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	2.69E-3	2.39E-5	1.14E-3	3.85E-3	4.10E-6	1.82E-4	2.72E-6	-1.55E-3	2.49E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.97E-6	5.40E-7	1.31E-7	2.64E-6	9.27E-8	4.29E-7	2.67E-9	-1.43E-6	1.74E-6
NHWD	kg	1.52E-2	1.31E-2	1.28E-3	2.95E-2	2.25E-3	1.22E-2	9.71E-3	-5.16E-3	4.85E-2
RWD	kg	8.54E-6	1.44E-6	1.40E-7	1.01E-5	2.46E-7	9.50E-7	1.44E-8	-2.85E-6	8.48E-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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