

Environmental Profile

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

Ecochain v3.5.64



Product: 3016780 - PE100 Pressure Pipe BK 110x10 L=12
Unit: 1 piece
Manufacturer: Wavin - DE - Westeregeln - verified
Address: Borrweg 10
39448 Börde-Hakel
Germany
Contact: <https://www.wavin.com/en-en>

LCA standard: EN15804+A2 (2019)
Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off
Externally verified: Yes
Issue date: 11-08-2022
End of validity: 11-08-2027
Verifier: Martijn van Hövell - SGS Search



PE pressure pipe that offers the right solution for every part of the main network in your sewerage system.

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 - DE - Westeregeln - verified (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	7.67E+1	1.74E+0	1.65E+0	8.00E+1	1.01E+0	3.27E+1	5.57E-1	-5.04E+1	6.39E+1
GWP-f	kg CO2 eq	7.63E+1	1.74E+0	1.34E+0	7.94E+1	1.00E+0	3.27E+1	5.57E-1	-5.02E+1	6.34E+1
GWP-b	kg CO2 eq	3.72E-1	8.02E-4	1.43E-1	5.16E-1	6.10E-4	-3.81E-2	4.18E-4	-1.90E-1	2.88E-1
GWP-luluc	kg CO2 eq	2.28E-2	6.37E-4	1.62E-1	1.85E-1	3.56E-4	5.64E-3	7.98E-6	-1.14E-2	1.80E-1
ODP	kg CFC11 eq	4.18E-6	3.84E-7	1.72E-7	4.74E-6	2.31E-7	7.35E-7	1.19E-8	-2.41E-6	3.31E-6
AP	mol H+ eq	2.85E-1	1.01E-2	8.04E-3	3.03E-1	5.72E-3	3.09E-2	2.83E-4	-1.39E-1	2.01E-1
EP-fw	kg P eq	1.26E-3	1.75E-5	3.07E-5	1.31E-3	8.27E-6	1.63E-4	3.68E-7	-6.26E-4	8.52E-4
EP-m	kg N eq	4.76E-2	3.55E-3	1.62E-3	5.28E-2	2.05E-3	8.98E-3	2.00E-4	-2.54E-2	3.86E-2
EP-T	mol N eq	5.30E-1	3.92E-2	1.64E-2	5.86E-1	2.26E-2	9.89E-2	1.15E-3	-2.83E-1	4.26E-1
POCP	kg NMVOC eq	2.54E-1	1.12E-2	4.72E-3	2.70E-1	6.45E-3	3.13E-2	4.51E-4	-1.32E-1	1.76E-1
ADP-mm	kg Sb eq	6.86E-4	4.40E-5	4.10E-5	7.71E-4	2.60E-5	1.22E-4	2.84E-7	-3.25E-4	5.95E-4
ADP-f	MJ	2.71E+3	2.62E+1	1.57E+1	2.75E+3	1.54E+1	9.79E+1	8.67E-1	-1.51E+3	1.36E+3
WDP	m3 depriv.	5.85E+1	9.38E-2	9.31E+0	6.79E+1	4.73E-2	1.92E+0	3.97E-3	-2.93E+1	4.06E+1
PM	disease inc.	2.71E-6	1.56E-7	7.04E-8	2.94E-6	9.07E-8	5.08E-7	5.96E-9	-1.10E-6	2.44E-6
IR	kBq U-235 eq	2.34E+0	1.10E-1	4.11E-2	2.49E+0	6.74E-2	2.95E-1	4.04E-3	-9.09E-1	1.95E+0
ETP-fw	CTUe	4.88E+2	2.34E+1	3.95E+1	5.50E+2	1.25E+1	1.11E+2	7.64E-1	-2.19E+2	4.56E+2
HTP-c	CTUh	2.00E-8	7.58E-10	1.47E-9	2.22E-8	4.46E-10	1.32E-8	2.11E-11	-1.04E-8	2.54E-8
HTP-nc	CTUh	4.74E-7	2.56E-8	3.81E-8	5.37E-7	1.49E-8	1.67E-7	4.86E-10	-2.33E-7	4.87E-7
SQP	Pt	1.03E+2	2.27E+1	1.46E+0	1.27E+2	1.32E+1	7.82E+1	2.22E+0	-4.78E+1	1.73E+2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.37E+1	3.28E-1	8.71E+1	1.31E+2	2.21E-1	4.83E+0	3.43E-2	-2.18E+1	1.14E+2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	4.37E+1	3.28E-1	8.71E+1	1.31E+2	2.21E-1	4.83E+0	3.43E-2	-2.18E+1	1.14E+2
PENRE	MJ	2.91E+3	2.78E+1	1.68E+1	2.95E+3	1.64E+1	1.04E+2	9.20E-1	-1.62E+3	1.45E+3
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.91E+3	2.78E+1	1.68E+1	2.95E+3	1.64E+1	1.04E+2	9.20E-1	-1.62E+3	1.45E+3
PET	MJ	2.95E+3	2.82E+1	1.04E+2	3.09E+3	1.66E+1	1.09E+2	9.54E-1	-1.65E+3	1.57E+3
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	8.85E-1	3.19E-3	2.21E-1	1.11E+0	1.74E-3	5.66E-2	1.07E-3	-4.47E-1	7.21E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	3.60E-4	6.64E-5	2.45E-5	4.51E-4	3.94E-5	1.59E-4	1.04E-6	-4.43E-4	2.08E-4
NHWD	kg	2.45E+0	1.66E+0	3.10E-2	4.15E+0	9.56E-1	4.81E+0	3.82E+0	-1.23E+0	1.25E+1
RWD	kg	2.55E-3	1.72E-4	5.85E-5	2.78E-3	1.05E-4	3.74E-4	5.67E-6	-8.44E-4	2.42E-3
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