

Environmental Profile

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

Ecochain v3.5.64



Product: 3063963 - PE80 Pipe BK/BL 25 SDR11 L=100
 Unit: 1 piece
 Manufacturer: Wavin - SE - Eskilstuna

LCA standard: EN15804+A2 (2019)
 Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off
 Externally verified: Yes
 Issue date: 20-06-2022
 End of validity: 20-06-2027
 Verifier: Harry van Ewijk - SGS Search



For the safe transport of waste water from, for example, the household-property to the main pipe. The PE80 material is slightly more flexible than PE100 and is therefore excellent for rolled products.

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 - SE - Eskilstuna (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

A1 Raw material supply A2 Transport A3 Manufacturing

Construction process stage

A4 Transport gate to site
 A5 Assembly / Construction installation process

Use stage

B1 Use B2 Maintenance B3 Repair B4 Replacement B5 Refurbishment
 B6 Operational energy use B7 Operational water use

End-of-Life stage

C1 De-construction demolition C2 Transport C3 Waste processing
 C4 Disposal

Benefits and loads beyond the system boundaries

D Reuse- Recovery- Recycling- potential

Environmental impacts and parameters

GWP-total = EF Climate Change [kg CO2 eq]; **GWP-f** = EF Climate change - Fossil [kg CO2 eq]; **GWP-b** = EF Climate Change - Biogenic [kg CO2 eq]; **GWP-luluc** = EF Climate Change - Land use and LU change [kg CO2 eq]; **ODP** = EF Ozone depletion [kg CFC11 eq]; **AP** = EF Acidification [mol H+ eq]; **EP-fw** = EF Eutrophication, freshwater [kg P eq]; **EP-m** = EF Eutrophication, marine [kg N eq]; **EP-T** = EF Eutrophication, terrestrial [mol N eq]; **POCP** = EF Photochemical ozone formation [kg NMVOC eq]; **ADP-mm** = EF Resource use, minerals and metals [kg Sb eq]; **ADP-f** = EF Resource use, fossils [MJ]; **WDP** = EF Water use [m3 depriv.]; **PM** = EF Particulate matter [disease inc.]; **IR** = EF Ionising radiation [kBq U-235 eq]; **ETP-fw** = EF Ecotoxicity, freshwater [CTUe]; **HTP-c** = EF Human toxicity, cancer [CTUh]; **HTP-nc** = EF Human toxicity, non-cancer [CTUh]; **SQP** = EF Land use [Pt]; **PERE** = Use of renewable primary energy excluding renewable primary energy resources used as raw materials [MJ]; **PERM** = Use of renewable primary energy resources used as raw materials [MJ]; **PERT** = Total use of renewable primary energy resources [MJ]; **PENRE** = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials [MJ]; **PENRM** = Use of non-renewable primary energy resources used as raw materials [MJ]; **PENRT** = Total use of non-renewable primary energy resources [MJ]; **PET** = Total energy [MJ]; **SM** = Use of secondary material [kg]; **RSF** = Use of renewable secondary fuels [MJ]; **NRSF** = Use of non-renewable secondary fuels [MJ]; **FW** = Use of net fresh water [m3]; **HWD** = Hazardous waste disposed [kg]; **NHWD** = Non-hazardous waste disposed [kg]; **RWD** = Radioactive waste disposed [kg]; **CRU** = Components for re-use [kg]; **MFR** = Materials for recycling [kg]; **MER** = Materials for energy recovery [kg]; **EE** = Exported energy [MJ]; **EET** = Exported energy thermic [MJ]; **EEE** = Exported energy electric [MJ]

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Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	3.45E+1	3.15E+0	1.19E+0	3.88E+1	4.43E-1	1.47E+1	2.45E-1	-2.23E+1	3.18E+1
GWP-f	kg CO2 eq	3.43E+1	3.15E+0	8.62E-1	3.83E+1	4.43E-1	1.47E+1	2.45E-1	-2.23E+1	3.14E+1
GWP-b	kg CO2 eq	1.63E-1	1.43E-3	2.27E-1	3.91E-1	2.69E-4	-1.77E-2	1.84E-4	-8.40E-2	2.90E-1
GWP-luluc	kg CO2 eq	1.04E-2	1.16E-3	1.00E-1	1.12E-1	1.57E-4	2.49E-3	3.52E-6	-5.04E-3	1.09E-1
ODP	kg CFC11 eq	1.86E-6	6.95E-7	9.77E-8	2.65E-6	1.02E-7	3.24E-7	5.23E-9	-1.07E-6	2.00E-6
AP	mol H+ eq	1.29E-1	1.92E-2	7.30E-3	1.56E-1	2.52E-3	1.37E-2	1.25E-4	-6.14E-2	1.10E-1
EP-fw	kg P eq	5.68E-4	3.16E-5	1.59E-5	6.15E-4	3.64E-6	7.18E-5	1.62E-7	-2.76E-4	4.15E-4
EP-m	kg N eq	2.15E-2	6.65E-3	2.16E-3	3.04E-2	9.02E-4	3.98E-3	8.83E-5	-1.12E-2	2.41E-2
EP-T	mol N eq	2.43E-1	7.34E-2	2.38E-2	3.40E-1	9.94E-3	4.38E-2	5.07E-4	-1.25E-1	2.69E-1
POCP	kg NMVOC eq	1.14E-1	2.09E-2	6.60E-3	1.42E-1	2.84E-3	1.38E-2	1.99E-4	-5.82E-2	1.00E-1
ADP-mm	kg Sb eq	4.26E-4	7.92E-5	2.60E-5	5.31E-4	1.15E-5	5.39E-5	1.25E-7	-1.43E-4	4.53E-4
ADP-f	MJ	1.21E+3	4.75E+1	8.57E+0	1.26E+3	6.80E+0	4.32E+1	3.82E-1	-6.66E+2	6.47E+2
WDP	m3 depriv.	2.61E+1	1.69E-1	5.52E+0	3.18E+1	2.09E-2	8.48E-1	1.75E-3	-1.29E+1	1.98E+1
PM	disease inc.	1.23E-6	2.81E-7	1.23E-7	1.63E-6	4.00E-8	2.24E-7	2.62E-9	-4.85E-7	1.42E-6
IR	kBq U-235 eq	1.04E+0	1.99E-1	2.55E-2	1.26E+0	2.97E-2	1.30E-1	1.78E-3	-4.01E-1	1.02E+0
ETP-fw	CTUe	2.25E+2	4.22E+1	2.39E+1	2.91E+2	5.52E+0	4.92E+1	3.37E-1	-9.66E+1	2.50E+2
HTP-c	CTUh	9.59E-9	1.38E-9	9.44E-10	1.19E-8	1.96E-10	5.85E-9	9.28E-12	-4.60E-9	1.34E-8
HTP-nc	CTUh	2.20E-7	4.61E-8	2.57E-8	2.91E-7	6.58E-9	7.38E-8	2.14E-10	-1.03E-7	2.69E-7
SQP	Pt	5.30E+1	4.09E+1	1.13E+0	9.50E+1	5.81E+0	3.45E+1	9.80E-1	-2.11E+1	1.15E+2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.97E+1	5.92E-1	5.40E+1	7.43E+1	9.75E-2	2.13E+0	1.51E-2	-9.61E+0	6.70E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.97E+1	5.92E-1	5.40E+1	7.43E+1	9.75E-2	2.13E+0	1.51E-2	-9.61E+0	6.70E+1
PENRE	MJ	1.29E+3	5.04E+1	9.10E+0	1.35E+3	7.21E+0	4.60E+1	4.05E-1	-7.19E+2	6.89E+2
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.29E+3	5.04E+1	9.10E+0	1.35E+3	7.21E+0	4.60E+1	4.05E-1	-7.19E+2	6.89E+2
PET	MJ	1.31E+3	5.10E+1	6.31E+1	1.43E+3	7.31E+0	4.82E+1	4.20E-1	-7.28E+2	7.56E+2
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	3.99E-1	5.75E-3	1.31E-1	5.36E-1	7.69E-4	2.50E-2	4.72E-4	-1.97E-1	3.65E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.83E-4	1.20E-4	1.30E-5	3.15E-4	1.74E-5	7.04E-5	4.59E-7	-1.98E-4	2.06E-4
NHWD	kg	1.30E+0	2.98E+0	4.00E-2	4.33E+0	4.21E-1	2.13E+0	1.68E+0	-5.42E-1	8.02E+0
RWD	kg	1.13E-3	3.12E-4	3.63E-5	1.48E-3	4.62E-5	1.65E-4	2.50E-6	-3.73E-4	1.32E-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