

Environmental Profile

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

Ecochain v3.5.64



Product: 3064039 - PE80 Pipe BK/BL 63 SDR11 L=200
 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 non-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	4.20E+2	3.93E+1	1.48E+1	4.74E+2	5.52E+0	1.86E+2	3.06E+0	-2.77E+2	3.91E+2
GWP-f	kg CO2 eq	4.23E+2	3.93E+1	1.08E+1	4.73E+2	5.52E+0	1.80E+2	3.06E+0	-2.76E+2	3.86E+2
GWP-b	kg CO2 eq	-3.44E+0	1.79E-2	2.83E+0	-5.95E-1	3.35E-3	5.30E+0	2.30E-3	-1.05E+0	3.66E+0
GWP-luluc	kg CO2 eq	1.32E-1	1.45E-2	1.25E+0	1.40E+0	1.95E-3	3.10E-2	4.39E-5	-6.36E-2	1.37E+0
ODP	kg CFC11 eq	2.32E-5	8.67E-6	1.22E-6	3.31E-5	1.27E-6	4.04E-6	6.52E-8	-1.33E-5	2.52E-5
AP	mol H+ eq	1.60E+0	2.39E-1	9.11E-2	1.93E+0	3.14E-2	1.70E-1	1.56E-3	-7.67E-1	1.36E+0
EP-fw	kg P eq	7.10E-3	3.94E-4	1.98E-4	7.69E-3	4.54E-5	8.95E-4	2.02E-6	-3.45E-3	5.19E-3
EP-m	kg N eq	2.67E-1	8.29E-2	2.70E-2	3.77E-1	1.12E-2	4.96E-2	1.10E-3	-1.40E-1	2.99E-1
EP-T	mol N eq	3.02E+0	9.15E-1	2.96E-1	4.23E+0	1.24E-1	5.46E-1	6.32E-3	-1.57E+0	3.34E+0
POCP	kg NMVOC eq	1.42E+0	2.60E-1	8.23E-2	1.76E+0	3.54E-2	1.72E-1	2.48E-3	-7.27E-1	1.24E+0
ADP-mm	kg Sb eq	5.32E-3	9.88E-4	3.24E-4	6.63E-3	1.43E-4	6.72E-4	1.56E-6	-1.78E-3	5.66E-3
ADP-f	MJ	1.50E+4	5.92E+2	1.07E+2	1.57E+4	8.47E+1	5.38E+2	4.76E+0	-8.28E+3	8.00E+3
WDP	m3 depriv.	3.23E+2	2.10E+0	6.89E+1	3.94E+2	2.60E-1	1.06E+1	2.18E-2	-1.61E+2	2.44E+2
PM	disease inc.	1.54E-5	3.50E-6	1.54E-6	2.05E-5	4.98E-7	2.80E-6	3.27E-8	-6.09E-6	1.77E-5
IR	kBq U-235 eq	1.30E+1	2.48E+0	3.18E-1	1.58E+1	3.70E-1	1.62E+0	2.22E-2	-5.00E+0	1.28E+1
ETP-fw	CTUe	2.80E+3	5.26E+2	2.98E+2	3.63E+3	6.88E+1	6.11E+2	4.20E+0	-1.23E+3	3.09E+3
HTP-c	CTUh	1.21E-7	1.72E-8	1.18E-8	1.50E-7	2.45E-9	7.28E-8	1.16E-10	-5.75E-8	1.67E-7
HTP-nc	CTUh	2.74E-6	5.75E-7	3.21E-7	3.64E-6	8.20E-8	9.18E-7	2.67E-9	-1.29E-6	3.35E-6
SQP	Pt	1.15E+3	5.09E+2	1.41E+1	1.68E+3	7.25E+1	4.30E+2	1.22E+1	-3.70E+2	1.82E+3
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.18E+2	7.38E+0	6.74E+2	1.00E+3	1.22E+0	2.66E+1	1.88E-1	-1.41E+2	8.86E+2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.18E+2	7.38E+0	6.74E+2	1.00E+3	1.22E+0	2.66E+1	1.88E-1	-1.41E+2	8.86E+2
PENRE	MJ	1.60E+4	6.28E+2	1.13E+2	1.68E+4	8.99E+1	5.74E+2	5.05E+0	-8.93E+3	8.52E+3
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.60E+4	6.28E+2	1.13E+2	1.68E+4	8.99E+1	5.74E+2	5.05E+0	-8.93E+3	8.52E+3
PET	MJ	1.64E+4	6.36E+2	7.87E+2	1.78E+4	9.12E+1	6.00E+2	5.24E+0	-9.08E+3	9.40E+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	4.90E+0	7.17E-2	1.64E+0	6.61E+0	9.59E-3	3.12E-1	5.89E-3	-2.46E+0	4.48E+0

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.31E-3	1.49E-3	1.63E-4	3.97E-3	2.17E-4	8.77E-4	5.72E-6	-2.44E-3	2.62E-3
NHWD	kg	1.63E+1	3.72E+1	4.99E-1	5.40E+1	5.25E+0	2.66E+1	2.10E+1	-6.79E+0	1.00E+2
RWD	kg	1.42E-2	3.89E-3	4.52E-4	1.85E-2	5.76E-4	2.06E-3	3.11E-5	-4.65E-3	1.65E-2
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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