

Environmental Profile

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

Ecochain v3.5.64



Product: 3064053 - PE80 Pipe BK/BL 75x6,8 PN12,5 SDR11 L=6
 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]

Statement of Confidentiality

This document and supporting material contain confidential and proprietary business information of Wavin - SE - Eskilstuna. These materials may be printed or (photo) copied or otherwise used only with the written consent of Wavin - SE - Eskilstuna.

Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	1.87E+1	1.65E+0	6.23E-1	2.09E+1	2.32E-1	8.06E+0	1.28E-1	-1.20E+1	1.74E+1
GWP-f	kg CO2 eq	1.86E+1	1.65E+0	4.51E-1	2.07E+1	2.32E-1	8.06E+0	1.28E-1	-1.19E+1	1.72E+1
GWP-b	kg CO2 eq	7.75E-2	7.51E-4	1.19E-1	1.97E-1	1.41E-4	-9.31E-3	9.64E-5	-4.38E-2	1.44E-1
GWP-luluc	kg CO2 eq	6.12E-3	6.10E-4	5.25E-2	5.92E-2	8.20E-5	1.31E-3	1.84E-6	-2.63E-3	5.80E-2
ODP	kg CFC11 eq	1.01E-6	3.65E-7	5.11E-8	1.43E-6	5.34E-8	1.71E-7	2.74E-9	-5.90E-7	1.07E-6
AP	mol H+ eq	7.05E-2	1.01E-2	3.82E-3	8.44E-2	1.32E-3	7.22E-3	6.53E-5	-3.25E-2	6.06E-2
EP-fw	kg P eq	3.28E-4	1.66E-5	8.33E-6	3.53E-4	1.91E-6	3.77E-5	8.48E-8	-1.46E-4	2.46E-4
EP-m	kg N eq	1.18E-2	3.49E-3	1.13E-3	1.64E-2	4.72E-4	2.11E-3	4.62E-5	-5.97E-3	1.31E-2
EP-T	mol N eq	1.33E-1	3.85E-2	1.24E-2	1.84E-1	5.20E-3	2.32E-2	2.65E-4	-6.64E-2	1.47E-1
POCP	kg NMVOC eq	6.24E-2	1.09E-2	3.45E-3	7.68E-2	1.49E-3	7.33E-3	1.04E-4	-3.09E-2	5.48E-2
ADP-mm	kg Sb eq	2.30E-4	4.16E-5	1.36E-5	2.85E-4	5.99E-6	2.84E-5	6.56E-8	-7.51E-5	2.44E-4
ADP-f	MJ	6.47E+2	2.49E+1	4.48E+0	6.76E+2	3.56E+0	2.27E+1	2.00E-1	-3.53E+2	3.50E+2
WDP	m3 depriv.	1.39E+1	8.85E-2	2.89E+0	1.69E+1	1.09E-2	4.45E-1	9.16E-4	-6.78E+0	1.06E+1
PM	disease inc.	6.69E-7	1.47E-7	6.45E-8	8.81E-7	2.09E-8	1.18E-7	1.37E-9	-2.56E-7	7.65E-7
IR	kBq U-235 eq	5.74E-1	1.04E-1	1.33E-2	6.92E-1	1.55E-2	6.85E-2	9.32E-4	-2.11E-1	5.66E-1
ETP-fw	CTUe	1.30E+2	2.21E+1	1.25E+1	1.65E+2	2.89E+0	2.59E+1	1.76E-1	-5.20E+1	1.42E+2
HTP-c	CTUh	5.80E-9	7.23E-10	4.94E-10	7.02E-9	1.03E-10	3.11E-9	4.85E-12	-2.43E-9	7.80E-9
HTP-nc	CTUh	1.28E-7	2.42E-8	1.35E-8	1.65E-7	3.44E-9	3.91E-8	1.12E-10	-4.81E-8	1.60E-7
SQP	Pt	3.02E+1	2.14E+1	5.90E-1	5.22E+1	3.04E+0	1.82E+1	5.13E-1	-1.12E+1	6.27E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.11E+1	3.10E-1	2.83E+1	3.97E+1	5.10E-2	1.12E+0	7.91E-3	-5.04E+0	3.59E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.11E+1	3.10E-1	2.83E+1	3.97E+1	5.10E-2	1.12E+0	7.91E-3	-5.04E+0	3.59E+1
PENRE	MJ	6.94E+2	2.64E+1	4.76E+0	7.25E+2	3.77E+0	2.42E+1	2.12E-1	-3.81E+2	3.72E+2
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	6.94E+2	2.64E+1	4.76E+0	7.25E+2	3.77E+0	2.42E+1	2.12E-1	-3.81E+2	3.72E+2
PET	MJ	7.05E+2	2.67E+1	3.30E+1	7.65E+2	3.83E+0	2.53E+1	2.20E-1	-3.86E+2	4.08E+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	2.15E-1	3.01E-3	6.87E-2	2.87E-1	4.02E-4	1.32E-2	2.47E-4	-1.04E-1	1.97E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.11E-4	6.27E-5	6.83E-6	1.81E-4	9.09E-6	3.71E-5	2.40E-7	-1.12E-4	1.15E-4
NHWD	kg	7.59E-1	1.56E+0	2.09E-2	2.35E+0	2.20E-1	1.14E+0	8.81E-1	-2.88E-1	4.30E+0
RWD	kg	6.19E-4	1.64E-4	1.90E-5	8.01E-4	2.42E-5	8.69E-5	1.31E-6	-1.97E-4	7.17E-4
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