

Environmental Profile

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

Ecochain v4.3.1



Product: 3064183 - PE Pipe Cable BK/YL 110 SDR17 L=12 Drill
Unit: 1 piece
Manufacturer: Wavin - SE - Eskilstuna - Verified

LCA standard: EN15804+A2 (2019)
Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off
Externally verified: Yes



Issue date: 29-11-2024
End of validity: 29-11-2029
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 - SE - Eskilstuna - 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																
A5 Assembly / Construction installation process					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]; **EET** = Exported energy thermic [MJ]; **EEE** = Exported energy electric [MJ]; **BIO-C-Product** = Biogenic C content, product [kg C]; **BIO-C-Packaging** = Biogenic C content, packaging [kg C]

Statement of Confidentiality

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Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	5.372E+1	4.450E+0	1.632E+0	5.980E+1	6.897E-1	2.242E+1	3.813E-1	-3.503E+1	4.826E+1
GWP-f	kg CO2 eq	5.361E+1	4.446E+0	1.347E+0	5.940E+1	6.892E-1	2.241E+1	3.812E-1	-3.496E+1	4.792E+1
GWP-b	kg CO2 eq	9.730E-2	1.270E-3	1.275E-1	2.261E-1	2.641E-4	6.540E-3	2.290E-5	-5.996E-2	1.730E-1
GWP-luluc	kg CO2 eq	1.740E-2	2.625E-3	1.566E-1	1.767E-1	2.439E-4	3.872E-3	5.558E-6	-1.316E-2	1.676E-1
ODP	kg CFC11 eq	1.450E-6	9.198E-7	1.526E-7	2.523E-6	1.588E-7	5.039E-7	8.152E-9	-1.755E-6	1.438E-6
AP	mol H+ eq	1.974E-1	1.077E-1	1.141E-2	3.165E-1	3.926E-3	2.118E-2	1.948E-4	-1.032E-1	2.386E-1
EP-fw	kg P eq	9.420E-4	2.649E-5	2.487E-5	9.934E-4	5.672E-6	1.117E-4	2.549E-7	-6.952E-4	4.158E-4
EP-m	kg N eq	3.353E-2	2.731E-2	3.382E-3	6.422E-2	1.405E-3	6.159E-3	1.369E-4	-1.873E-2	5.319E-2
EP-T	mol N eq	3.800E-1	3.035E-1	3.711E-2	7.206E-1	1.548E-2	6.778E-2	7.902E-4	-2.070E-1	5.977E-1
POCP	kg NMVOC eq	1.795E-1	7.943E-2	1.031E-2	2.692E-1	4.426E-3	2.143E-2	3.095E-4	-1.161E-1	1.793E-1
ADP-mm	kg Sb eq	7.377E-4	5.778E-5	4.054E-5	8.360E-4	1.783E-5	8.381E-5	1.962E-7	-2.289E-4	7.090E-4
ADP-f	MJ	1.863E+3	6.000E+1	1.339E+1	1.936E+3	1.058E+1	6.717E+1	5.955E-1	-1.050E+3	9.643E+2
WDP	m3 depriv.	4.258E+1	1.317E-1	8.627E+0	5.134E+1	3.247E-2	1.319E+0	3.004E-3	-2.953E+1	2.317E+1
PM	disease inc.	1.641E-6	2.182E-7	1.925E-7	2.051E-6	6.222E-8	3.485E-7	4.091E-9	-7.421E-7	1.724E-6
IR	kBq U-235 eq	1.277E+0	2.553E-1	3.981E-2	1.572E+0	4.624E-2	2.023E-1	2.770E-3	-1.007E+0	8.167E-1
ETP-fw	CTUe	3.289E+2	4.379E+1	3.732E+1	4.100E+2	8.591E+0	7.620E+1	5.246E-1	-1.686E+2	3.267E+2
HTP-c	CTUh	1.549E-8	2.339E-9	1.474E-9	1.930E-8	3.057E-10	9.198E-9	1.467E-11	-6.748E-9	2.207E-8
HTP-nc	CTUh	3.517E-7	4.046E-8	4.019E-8	4.324E-7	1.024E-8	1.147E-7	3.348E-10	-1.819E-7	3.758E-7
SQP	Pt	7.566E+1	2.337E+1	1.760E+0	1.008E+2	9.051E+0	5.365E+1	1.527E+0	-4.145E+1	1.236E+2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.231E+1	5.246E-1	8.443E+1	1.173E+2	1.518E-1	3.314E+0	2.341E-2	-2.278E+1	9.797E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.231E+1	5.246E-1	8.443E+1	1.173E+2	1.518E-1	3.314E+0	2.341E-2	-2.278E+1	9.797E+1
PENRE	MJ	1.999E+3	6.370E+1	1.422E+1	2.077E+3	1.123E+1	7.156E+1	6.318E-1	-1.131E+3	1.029E+3
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.999E+3	6.370E+1	1.422E+1	2.077E+3	1.123E+1	7.156E+1	6.318E-1	-1.131E+3	1.029E+3
PET	MJ	2.031E+3	6.423E+1	9.865E+1	2.194E+3	1.138E+1	7.487E+1	6.552E-1	-1.154E+3	1.127E+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	6.522E-1	4.575E-3	2.049E-1	8.617E-1	1.197E-3	3.879E-2	7.347E-4	-4.210E-1	4.814E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.828E-4	8.855E-5	2.039E-5	3.917E-4	2.706E-5	1.095E-4	7.172E-7	-2.959E-4	2.331E-4
NHWD	kg	2.127E+0	1.412E+0	6.248E-2	3.601E+0	6.557E-1	3.301E+0	2.621E+0	-1.018E+0	9.162E+0
RWD	kg	1.141E-3	4.092E-4	5.664E-5	1.607E-3	7.195E-5	2.563E-4	3.891E-6	-8.621E-4	1.077E-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
EET	MJ	0	0	0	0	0	0	0	0	0
EEE	MJ	0	0	0	0	0	0	0	0	0
Others	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
BIO-C-Product	kg C	0	0	0	0	0	0	0	0	0
BIO-C-Packaging	kg C	3.109E-7	0	0	3.109E-7	0	0	0	0	3.109E-7



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