

Environmental Profile

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

Ecochain v3.5.64



Product: 3077306 - PP Pipe Cable SRS YL 75 SN8 L=6 S/CH DIN
 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



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	7.87E+0	3.06E-1	2.77E-1	8.45E+0	1.03E-1	2.99E+0	4.86E-2	-4.79E+0	6.80E+0
GWP-f	kg CO2 eq	7.83E+0	3.05E-1	2.01E-1	8.34E+0	1.03E-1	3.00E+0	4.87E-2	-4.78E+0	6.71E+0
GWP-b	kg CO2 eq	3.57E-2	8.07E-5	5.29E-2	8.87E-2	6.27E-5	-4.14E-3	4.24E-5	-1.68E-2	6.79E-2
GWP-luluc	kg CO2 eq	2.00E-3	1.34E-4	2.34E-2	2.55E-2	3.65E-5	5.79E-4	8.27E-7	-9.26E-4	2.52E-2
ODP	kg CFC11 eq	1.37E-7	6.57E-8	2.28E-8	2.26E-7	2.38E-8	7.53E-8	1.22E-9	-1.77E-7	1.49E-7
AP	mol H+ eq	2.78E-2	4.14E-3	1.70E-3	3.36E-2	5.88E-4	3.16E-3	2.91E-5	-1.34E-2	2.39E-2
EP-fw	kg P eq	1.13E-4	2.53E-6	3.71E-6	1.20E-4	8.49E-7	1.67E-5	3.79E-8	-5.27E-5	8.45E-5
EP-m	kg N eq	4.59E-3	1.16E-3	5.05E-4	6.26E-3	2.10E-4	9.19E-4	1.90E-5	-2.37E-3	5.04E-3
EP-T	mol N eq	5.18E-2	1.29E-2	5.54E-3	7.02E-2	2.32E-3	1.01E-2	1.18E-4	-2.63E-2	5.65E-2
POCP	kg NMVOC eq	2.41E-2	3.46E-3	1.54E-3	2.91E-2	6.63E-4	3.20E-3	4.43E-5	-1.21E-2	2.09E-2
ADP-mm	kg Sb eq	1.06E-4	6.10E-6	6.05E-6	1.18E-4	2.67E-6	1.25E-5	2.93E-8	-3.17E-5	1.02E-4
ADP-f	MJ	2.80E+2	4.40E+0	2.00E+0	2.87E+2	1.58E+0	1.00E+1	8.91E-2	-1.51E+2	1.47E+2
WDP	m3 depriv.	5.52E+0	1.32E-2	1.29E+0	6.82E+0	4.86E-3	1.97E-1	4.46E-4	-2.62E+0	4.41E+0
PM	disease inc.	2.42E-7	2.22E-8	2.87E-8	2.93E-7	9.31E-9	5.21E-8	6.12E-10	-1.12E-7	2.43E-7
IR	kBq U-235 eq	1.41E-1	1.86E-2	5.94E-3	1.66E-1	6.92E-3	3.03E-2	4.13E-4	-7.01E-2	1.33E-1
ETP-fw	CTUe	4.03E+1	3.63E+0	5.57E+0	4.95E+1	1.29E+0	1.13E+1	7.46E-2	-1.86E+1	4.36E+1
HTP-c	CTUh	1.75E-9	1.41E-10	2.20E-10	2.12E-9	4.58E-11	1.37E-9	2.17E-12	-7.97E-10	2.73E-9
HTP-nc	CTUh	4.95E-8	3.75E-9	6.00E-9	5.92E-8	1.53E-9	1.69E-8	4.80E-11	-2.26E-8	5.51E-8
SQP	Pt	9.41E+0	3.00E+0	2.63E-1	1.27E+1	1.36E+0	8.03E+0	2.29E-1	-4.05E+0	1.82E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.97E+0	4.81E-2	1.26E+1	1.66E+1	2.27E-2	4.96E-1	3.45E-3	-1.87E+0	1.53E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.97E+0	4.81E-2	1.26E+1	1.66E+1	2.27E-2	4.96E-1	3.45E-3	-1.87E+0	1.53E+1
PENRE	MJ	3.01E+2	4.68E+0	2.12E+0	3.08E+2	1.68E+0	1.07E+1	9.45E-2	-1.63E+2	1.57E+2
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.01E+2	4.68E+0	2.12E+0	3.08E+2	1.68E+0	1.07E+1	9.45E-2	-1.63E+2	1.57E+2
PET	MJ	3.05E+2	4.72E+0	1.47E+1	3.24E+2	1.70E+0	1.12E+1	9.79E-2	-1.65E+2	1.73E+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	8.25E-2	4.54E-4	3.06E-2	1.14E-1	1.79E-4	5.80E-3	1.10E-4	-3.91E-2	8.05E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	3.23E-5	9.31E-6	3.04E-6	4.46E-5	4.05E-6	1.63E-5	1.07E-7	-3.47E-5	3.04E-5
NHWD	kg	2.92E-1	2.11E-1	9.33E-3	5.12E-1	9.82E-2	4.93E-1	3.92E-1	-1.16E-1	1.38E+0
RWD	kg	1.22E-4	2.94E-5	8.45E-6	1.60E-4	1.08E-5	3.84E-5	5.81E-7	-6.30E-5	1.47E-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



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