

Environmental Profile

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

Ecochain v3.5.80



Product: 3066079 - EVAC Pipe GY 50x3 NFE+NFME L=2 PL
Unit: 1 Piece
Manufacturer: Wavin - FR - Varennes

The Wavin range of PVC pipes and fittings to be glued covers all the usual diameters and allows you to create networks that are 100% compatible, homogeneous and meet the requirements of the French market.

LCA standard: EN15804+A2 (2019)
Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off
Externally verified: Yes
Issue date: 24-11-2022
End of validity: 24-11-2027
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 - FR - Varennes (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 EN15804+A2 Climate Change [kg CO2 eq]; **GWP-f** = EF Climate change - Fossil [kg CO2 eq]; **GWP-b** = EF EN15804+A2 Climate Change - Biogenic [kg CO2 eq]; **GWP-luluc** = EF EN15804+A2 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	1.30E+0	5.81E-2	8.02E-2	1.44E+0	2.43E-2	1.06E+0	6.91E-3	-9.23E-1	1.61E+0
GWP-f	kg CO2 eq	1.72E+0	5.81E-2	6.32E-2	1.84E+0	2.43E-2	6.21E-1	6.91E-3	-9.16E-1	1.58E+0
GWP-b	kg CO2 eq	-4.38E-1	3.53E-5	1.70E-2	-4.21E-1	1.48E-5	4.40E-1	8.74E-6	-6.40E-3	1.24E-2
GWP-luluc	kg CO2 eq	1.97E-2	2.06E-5	6.07E-5	1.98E-2	8.60E-6	2.83E-4	1.88E-7	-6.53E-4	1.94E-2
ODP	kg CFC11 eq	9.05E-7	1.34E-8	8.24E-9	9.26E-7	5.60E-9	7.54E-8	2.76E-10	-4.57E-7	5.51E-7
AP	mol H+ eq	8.45E-3	3.31E-4	3.60E-4	9.14E-3	1.38E-4	1.35E-3	6.62E-6	-3.66E-3	6.98E-3
EP-fw	kg P eq	8.06E-5	4.78E-7	1.51E-6	8.26E-5	2.00E-7	9.38E-6	8.42E-9	-3.43E-5	5.78E-5
EP-m	kg N eq	1.55E-3	1.18E-4	1.05E-4	1.78E-3	4.95E-5	3.35E-4	4.06E-6	-6.56E-4	1.51E-3
EP-T	mol N eq	1.62E-2	1.30E-3	1.27E-3	1.88E-2	5.46E-4	3.70E-3	2.65E-5	-7.28E-3	1.58E-2
POCP	kg NMVOC eq	5.32E-3	3.73E-4	3.11E-4	6.01E-3	1.56E-4	1.11E-3	9.02E-6	-2.39E-3	4.89E-3
ADP-mm	kg Sb eq	1.09E-3	1.50E-6	1.25E-6	1.09E-3	6.29E-7	5.22E-6	6.60E-9	-1.87E-5	1.08E-3
ADP-f	MJ	4.26E+1	8.91E-1	8.81E-1	4.44E+1	3.73E-1	3.66E+0	2.00E-2	-2.23E+1	2.61E+1
WDP	m3 depriv.	2.76E+0	2.74E-3	1.77E+0	4.54E+0	1.14E-3	1.39E-1	1.25E-4	-1.32E+0	3.36E+0
PM	disease inc.	7.47E-8	5.24E-9	5.23E-9	8.51E-8	2.19E-9	1.69E-8	1.37E-10	-2.54E-8	7.90E-8
IR	kBq U-235 eq	9.53E-2	3.90E-3	2.52E-3	1.02E-1	1.63E-3	1.27E-2	9.17E-5	-4.30E-2	7.32E-2
ETP-fw	CTUe	3.90E+1	7.24E-1	8.43E-1	4.06E+1	3.03E-1	2.65E+1	2.91E-1	-1.45E+1	5.32E+1
HTP-c	CTUh	1.47E-9	2.58E-11	6.46E-11	1.56E-9	1.08E-11	4.29E-10	5.28E-13	-5.07E-10	1.50E-9
HTP-nc	CTUh	4.61E-8	8.63E-10	1.68E-9	4.86E-8	3.61E-10	9.55E-9	5.62E-11	-1.74E-8	4.12E-8
SQP	Pt	4.61E+1	7.63E-1	4.28E+0	5.11E+1	3.19E-1	2.31E+0	5.07E-2	-1.08E+1	4.30E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	8.15E+0	1.28E-2	1.09E+0	9.25E+0	5.35E-3	2.58E-1	7.15E-4	-2.65E+0	6.86E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	8.15E+0	1.28E-2	1.09E+0	9.25E+0	5.35E-3	2.58E-1	7.15E-4	-2.65E+0	6.86E+0
PENRE	MJ	4.57E+1	9.46E-1	9.52E-1	4.76E+1	3.96E-1	3.89E+0	2.13E-2	-2.40E+1	2.79E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	4.57E+1	9.46E-1	9.52E-1	4.76E+1	3.96E-1	3.89E+0	2.13E-2	-2.40E+1	2.79E+1
PET	MJ	5.39E+1	9.59E-1	2.04E+0	5.69E+1	4.01E-1	4.15E+0	2.20E-2	-2.67E+1	3.48E+1
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	3.11E-2	1.01E-4	4.15E-2	7.27E-2	4.22E-5	3.85E-3	2.45E-5	-1.39E-2	6.27E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.57E-4	2.28E-6	1.29E-6	1.61E-4	9.54E-7	5.92E-6	2.42E-8	-1.85E-5	1.49E-4
NHWD	kg	1.90E-1	5.52E-2	9.49E-3	2.55E-1	2.31E-2	1.42E-1	9.24E-2	-7.34E-2	4.39E-1
RWD	kg	8.43E-5	6.06E-6	2.62E-6	9.30E-5	2.54E-6	1.38E-5	1.31E-7	-3.80E-5	7.14E-5
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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