

Environmental Profile

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

Ecochain v3.5.80



Product: 3025485 - PVC TAD Pipe GY 32 L=4 PL
 Unit: 1 Piece
 Manufacturer: Wavin - FR - Varennes

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



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.

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	☑	☑	☑	☑									

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 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	6.84E-1	1.00E-1	1.06E-1	8.90E-1	3.23E-2	1.23E+0	9.91E-3	-2.95E-1	1.87E+0
GWP-f	kg CO2 eq	9.97E-1	9.99E-2	8.36E-2	1.18E+0	3.23E-2	8.52E-1	9.91E-3	-2.95E-1	1.78E+0
GWP-b	kg CO2 eq	-3.59E-1	4.58E-5	2.21E-2	-3.36E-1	1.96E-5	3.78E-1	1.20E-5	-5.86E-4	4.09E-2
GWP-luluc	kg CO2 eq	4.61E-2	4.09E-5	7.68E-5	4.62E-2	1.14E-5	3.72E-4	2.83E-7	-1.10E-4	4.65E-2
ODP	kg CFC11 eq	3.42E-7	2.25E-8	1.09E-8	3.75E-7	7.44E-9	9.89E-8	3.75E-10	-6.06E-8	4.21E-7
AP	mol H+ eq	5.35E-3	1.01E-3	4.61E-4	6.82E-3	1.84E-4	1.76E-3	9.15E-6	-6.13E-4	8.15E-3
EP-fw	kg P eq	5.69E-5	7.55E-7	1.99E-6	5.96E-5	2.66E-7	1.23E-5	1.24E-8	-3.63E-6	6.86E-5
EP-m	kg N eq	1.08E-3	3.01E-4	1.36E-4	1.52E-3	6.58E-5	4.35E-4	5.34E-6	-1.50E-4	1.87E-3
EP-T	mol N eq	1.05E-2	3.33E-3	1.62E-3	1.55E-2	7.25E-4	4.80E-3	3.63E-5	-1.89E-3	1.91E-2
POCP	kg NMVOC eq	3.22E-3	9.12E-4	4.02E-4	4.54E-3	2.07E-4	1.44E-3	1.25E-5	-5.10E-4	5.69E-3
ADP-mm	kg Sb eq	6.56E-4	2.28E-6	1.56E-6	6.60E-4	8.35E-7	6.87E-6	9.35E-9	-1.67E-6	6.66E-4
ADP-f	MJ	2.38E+1	1.49E+0	1.17E+0	2.65E+1	4.95E-1	4.81E+0	2.74E-2	-5.46E+0	2.64E+1
WDP	m3 depriv.	1.13E+0	4.24E-3	2.37E+0	3.51E+0	1.52E-3	1.83E-1	2.60E-4	-1.17E-1	3.57E+0
PM	disease inc.	5.76E-8	8.05E-9	6.75E-9	7.24E-8	2.91E-9	2.22E-8	1.88E-10	-5.32E-9	9.24E-8
IR	kBq U-235 eq	7.18E-2	6.51E-3	3.37E-3	8.17E-2	2.17E-3	1.67E-2	1.24E-4	-4.91E-3	9.58E-2
ETP-fw	CTUe	2.66E+1	1.18E+0	1.08E+0	2.89E+1	4.02E-1	3.47E+1	3.82E-1	-2.94E+0	6.15E+1
HTP-c	CTUh	9.12E-10	4.63E-11	8.44E-11	1.04E-9	1.43E-11	6.10E-10	7.96E-13	-7.72E-11	1.59E-9
HTP-nc	CTUh	2.33E-8	1.35E-9	2.17E-9	2.68E-8	4.80E-10	1.27E-8	7.48E-11	-2.22E-9	3.78E-8
SQP	Pt	4.12E+1	1.13E+0	5.18E+0	4.75E+1	4.24E-1	3.04E+0	6.92E-2	-7.64E+0	4.34E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	7.05E+0	1.98E-2	1.32E+0	8.40E+0	7.11E-3	3.40E-1	9.48E-4	-1.57E+0	7.18E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	7.05E+0	1.98E-2	1.32E+0	8.40E+0	7.11E-3	3.40E-1	9.48E-4	-1.57E+0	7.18E+0
PENRE	MJ	2.55E+1	1.58E+0	1.26E+0	2.84E+1	5.26E-1	5.12E+0	2.90E-2	-5.99E+0	2.81E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.55E+1	1.58E+0	1.26E+0	2.84E+1	5.26E-1	5.12E+0	2.90E-2	-5.99E+0	2.81E+1
PET	MJ	3.26E+1	1.60E+0	2.58E+0	3.68E+1	5.33E-1	5.46E+0	3.00E-2	-7.56E+0	3.52E+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	1.72E-2	1.56E-4	5.56E-2	7.29E-2	5.61E-5	5.05E-3	3.30E-5	-1.42E-3	7.66E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	9.94E-5	3.47E-6	1.74E-6	1.05E-4	1.27E-6	7.83E-6	3.39E-8	-6.07E-6	1.08E-4
NHWD	kg	1.46E-1	8.01E-2	1.27E-2	2.39E-1	3.07E-2	1.85E-1	1.23E-1	-1.02E-2	5.67E-1
RWD	kg	6.30E-5	1.02E-5	3.51E-6	7.67E-5	3.37E-6	1.81E-5	1.77E-7	-4.98E-6	9.33E-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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