Environmental Profile

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

Ecochain v3.5.80

Product:	3022270 - PVC Click Inlet GY 315x200
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

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]

Statement of Confidentiality

Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	6.26E+0	2.03E-1	2.85E-1	6.75E+0	7.85E-2	3.32E+0	2.71E-2	-3.43E+0	6.74E+0
GWP-f	kg CO2 eq	6.69E+0	2.03E-1	2.24E-1	7.12E+0	7.84E-2	2.92E+0	2.71E-2	-3.52E+0	6.63E+0
GWP-b	kg CO2 eq	-4.37E-1	1.23E-4	6.10E-2	-3.76E-1	4.76E-5	3.96E-1	3.27E-5	8.88E-2	1.09E-1
GWP-luluc	kg CO2 eq	7.00E-3	7.19E-5	2.21E-4	7.29E-3	2.78E-5	8.99E-4	6.89E-7	-2.90E-3	5.32E-3
ODP	kg CFC11 eq	3.17E-6	4.68E-8	2.93E-8	3.25E-6	1.81E-8	2.44E-7	9.71E-10	-1.55E-6	1.96E-6
AP	mol H+ eq	3.32E-2	1.16E-3	1.30E-3	3.57E-2	4.47E-4	4.31E-3	2.36E-5	-1.27E-2	2.77E-2
EP-fw	kg P eq	3.06E-4	1.67E-6	5.36E-6	3.13E-4	6.45E-7	3.00E-5	3.10E-8	-1.24E-4	2.20E-4
EP-m	kg N eq	5.76E-3	4.14E-4	3.79E-4	6.55E-3	1.60E-4	1.07E-3	1.77E-5	-2.29E-3	5.51E-3
EP-T	mol N eq	6.37E-2	4.56E-3	4.60E-3	7.28E-2	1.76E-3	1.18E-2	9.42E-5	-2.47E-2	6.18E-2
POCP	kg NMVOC eq	2.18E-2	1.30E-3	1.12E-3	2.43E-2	5.04E-4	3.51E-3	3.26E-5	-8.53E-3	1.98E-2
ADP-mm	kg Sb eq	7.43E-3	5.26E-6	4.57E-6	7.44E-3	2.03E-6	1.67E-5	2.37E-8	-7.46E-5	7.39E-3
ADP-f	MJ	1.71E+2	3.12E+0	3.12E+0	1.77E+2	1.20E+0	1.16E+1	7.09E-2	-8.33E+1	1.07E+2
WDP	m3 depriv.	9.77E+0	9.57E-3	6.24E+0	1.60E+1	3.69E-3	4.56E-1	4.76E-4	-4.54E+0	1.19E+1
PM	disease inc.	2.55E-7	1.83E-8	1.88E-8	2.93E-7	7.08E-9	5.30E-8	4.87E-10	-9.26E-8	2.60E-7
IR	kBq U-235 eq	4.01E-1	1.36E-2	8.90E-3	4.23E-1	5.26E-3	4.05E-2	3.27E-4	-1.53E-1	3.16E-1
ETP-fw	CTUe	1.89E+2	2.53E+0	3.05E+0	1.94E+2	9.77E-1	8.74E+1	9.64E-1	-5.22E+1	2.31E+2
HTP-c	CTUh	5.67E-9	9.01E-11	2.31E-10	5.99E-9	3.48E-11	1.31E-9	1.95E-12	-1.81E-9	5.52E-9
HTP-nc	CTUh	1.75E-7	3.02E-9	6.05E-9	1.84E-7	1.17E-9	3.10E-8	1.90E-10	-5.87E-8	1.58E-7
SQP	Pt	6.87E+1	2.67E+0	1.60E+1	8.74E+1	1.03E+0	7.16E+0	1.81E-1	-5.22E+1	4.36E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.57E+1	4.47E-2	4.07E+0	1.98E+1	1.73E-2	8.26E-1	2.67E-3	-1.04E+1	1.02E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.57E+1	4.47E-2	4.07E+0	1.98E+1	1.73E-2	8.26E-1	2.67E-3	-1.04E+1	1.02E+1
PENRE	MJ	1.83E+2	3.31E+0	3.38E+0	1.90E+2	1.28E+0	1.23E+1	7.52E-2	-8.98E+1	1.13E+2
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.83E+2	3.31E+0	3.38E+0	1.90E+2	1.28E+0	1.23E+1	7.52E-2	-8.98E+1	1.13E+2
PET	MJ	1.99E+2	3.36E+0	7.45E+0	2.09E+2	1.30E+0	1.31E+1	7.79E-2	-1.00E+2	1.24E+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	1.21E-1	3.53E-4	1.46E-1	2.67E-1	1.36E-4	1.33E-2	8.68E-5	-5.08E-2	2.30E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.01E-3	7.97E-6	4.56E-6	1.02E-3	3.08E-6	1.93E-5	8.63E-8	-7.08E-5	9.72E-4
NHWD	kg	7.09E-1	1.93E-1	3.34E-2	9.35E-1	7.46E-2	4.41E-1	3.14E-1	-2.57E-1	1.51E+0
RWD	kg	3.86E-4	2.12E-5	9.23E-6	4.16E-4	8.19E-6	4.36E-5	4.62E-7	-1.38E-4	3.31E-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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