

Environmental Profile

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

Ecochain v3.5.80



Product: 3025974 - PVC Access Piece GY 100 BC
 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	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]

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Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	9.26E-1	3.46E-2	4.52E-2	1.01E+0	1.30E-2	5.72E-1	4.08E-3	-5.16E-1	1.08E+0
GWP-f	kg CO2 eq	1.07E+0	3.45E-2	3.53E-2	1.14E+0	1.30E-2	3.71E-1	4.08E-3	-6.05E-1	9.26E-1
GWP-b	kg CO2 eq	-1.49E-1	2.10E-5	9.95E-3	-1.39E-1	7.91E-6	2.01E-1	5.09E-6	9.03E-2	1.52E-1
GWP-luluc	kg CO2 eq	1.51E-3	1.22E-5	3.82E-5	1.56E-3	4.61E-6	1.61E-4	1.09E-7	-1.08E-3	6.44E-4
ODP	kg CFC11 eq	5.44E-7	7.96E-9	4.64E-9	5.56E-7	3.00E-9	4.44E-8	1.53E-10	-2.79E-7	3.25E-7
AP	mol H+ eq	5.32E-3	1.97E-4	2.18E-4	5.74E-3	7.42E-5	7.79E-4	3.73E-6	-2.61E-3	3.98E-3
EP-fw	kg P eq	5.35E-5	2.84E-7	8.48E-7	5.46E-5	1.07E-7	5.37E-6	4.91E-9	-2.89E-5	3.12E-5
EP-m	kg N eq	1.00E-3	7.04E-5	6.27E-5	1.14E-3	2.65E-5	1.95E-4	2.32E-6	-4.91E-4	8.71E-4
EP-T	mol N eq	1.09E-2	7.76E-4	7.78E-4	1.24E-2	2.92E-4	2.15E-3	1.49E-5	-5.36E-3	9.51E-3
POCP	kg NMVOC eq	3.39E-3	2.22E-4	1.85E-4	3.80E-3	8.36E-5	6.43E-4	5.11E-6	-1.75E-3	2.79E-3
ADP-mm	kg Sb eq	1.33E-3	8.93E-7	7.99E-7	1.33E-3	3.37E-7	3.08E-6	3.75E-9	-1.21E-5	1.32E-3
ADP-f	MJ	2.60E+1	5.30E-1	4.89E-1	2.70E+1	2.00E-1	2.09E+0	1.12E-2	-1.42E+1	1.51E+1
WDP	m3 depriv.	1.65E+0	1.63E-3	9.52E-1	2.60E+0	6.13E-4	7.99E-2	8.06E-5	-9.14E-1	1.77E+0
PM	disease inc.	4.08E-8	3.12E-9	3.12E-9	4.70E-8	1.18E-9	9.78E-9	7.70E-11	-2.46E-8	3.35E-8
IR	kBq U-235 eq	6.20E-2	2.32E-3	1.37E-3	6.57E-2	8.73E-4	7.43E-3	5.13E-5	-3.18E-2	4.23E-2
ETP-fw	CTUe	4.00E+1	4.30E-1	5.15E-1	4.10E+1	1.62E-1	1.55E+1	1.70E-1	-1.52E+1	4.17E+1
HTP-c	CTUh	9.99E-10	1.53E-11	3.74E-11	1.05E-9	5.77E-12	2.41E-10	3.12E-13	-3.95E-10	9.03E-10
HTP-nc	CTUh	3.05E-8	5.13E-10	1.00E-9	3.21E-8	1.93E-10	5.52E-9	3.28E-11	-1.22E-8	2.57E-8
SQP	Pt	2.06E+1	4.54E-1	2.97E+0	2.41E+1	1.71E-1	1.29E+0	2.86E-2	-2.95E+1	-3.92E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.98E+0	7.61E-3	7.55E-1	4.74E+0	2.87E-3	1.48E-1	4.09E-4	-5.30E+0	-4.11E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.98E+0	7.61E-3	7.55E-1	4.74E+0	2.87E-3	1.48E-1	4.09E-4	-5.30E+0	-4.11E-1
PENRE	MJ	2.78E+1	5.63E-1	5.28E-1	2.89E+1	2.12E-1	2.23E+0	1.19E-2	-1.53E+1	1.61E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.78E+1	5.63E-1	5.28E-1	2.89E+1	2.12E-1	2.23E+0	1.19E-2	-1.53E+1	1.61E+1
PET	MJ	3.18E+1	5.70E-1	1.28E+0	3.37E+1	2.15E-1	2.37E+0	1.23E-2	-2.06E+1	1.57E+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	1.95E-2	6.00E-5	2.23E-2	4.19E-2	2.26E-5	2.21E-3	1.37E-5	-1.18E-2	3.24E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.87E-4	1.36E-6	6.96E-7	1.89E-4	5.11E-7	3.48E-6	1.37E-8	-1.28E-5	1.80E-4
NHWD	kg	1.25E-1	3.29E-2	5.11E-3	1.63E-1	1.24E-2	7.70E-2	4.98E-2	-5.48E-2	2.47E-1
RWD	kg	5.55E-5	3.61E-6	1.41E-6	6.05E-5	1.36E-6	8.08E-6	7.28E-8	-2.88E-5	4.13E-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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