

Environmental Profile

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

Ecochain v3.5.80



Product: 3025980 - PVC Access Plug GY 40 BC
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]

Statement of Confidentiality

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Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	4.98E-2	1.93E-3	2.99E-3	5.47E-2	6.53E-4	5.60E-2	2.06E-4	-2.24E-2	8.91E-2
GWP-f	kg CO2 eq	7.19E-2	1.92E-3	2.18E-3	7.60E-2	6.52E-4	2.49E-2	2.06E-4	-4.09E-2	6.09E-2
GWP-b	kg CO2 eq	-2.23E-2	1.17E-6	8.09E-4	-2.15E-2	3.96E-7	3.11E-2	2.50E-7	1.86E-2	2.83E-2
GWP-luluc	kg CO2 eq	1.68E-4	6.81E-7	4.23E-6	1.73E-4	2.31E-7	7.97E-6	5.60E-9	-1.58E-4	2.31E-5
ODP	kg CFC11 eq	2.74E-8	4.43E-10	3.03E-10	2.81E-8	1.50E-10	2.27E-9	7.76E-12	-1.45E-8	1.60E-8
AP	mol H+ eq	3.76E-4	1.10E-5	2.11E-5	4.08E-4	3.71E-6	4.51E-5	1.88E-7	-2.05E-4	2.52E-4
EP-fw	kg P eq	3.82E-6	1.58E-8	5.54E-8	3.89E-6	5.36E-9	2.68E-7	2.49E-10	-2.69E-6	1.47E-6
EP-m	kg N eq	8.30E-5	3.92E-6	5.58E-6	9.25E-5	1.33E-6	1.24E-5	1.27E-7	-4.29E-5	6.35E-5
EP-T	mol N eq	8.74E-4	4.32E-5	7.79E-5	9.95E-4	1.46E-5	1.37E-4	7.50E-7	-4.82E-4	6.65E-4
POCP	kg NMVOC eq	2.59E-4	1.24E-5	1.65E-5	2.88E-4	4.19E-6	4.08E-5	2.58E-7	-1.44E-4	1.89E-4
ADP-mm	kg Sb eq	9.92E-5	4.98E-8	9.38E-8	9.94E-5	1.69E-8	1.78E-7	1.90E-10	-7.37E-7	9.88E-5
ADP-f	MJ	1.61E+0	2.95E-2	2.89E-2	1.66E+0	1.00E-2	1.15E-1	5.65E-4	-8.78E-1	9.12E-1
WDP	m3 depriv.	8.61E-2	9.06E-5	4.32E-2	1.29E-1	3.07E-5	3.85E-3	4.46E-6	-6.38E-2	6.95E-2
PM	disease inc.	3.67E-9	1.74E-10	2.80E-10	4.13E-9	5.89E-11	5.87E-10	3.88E-12	-2.79E-9	1.99E-9
IR	kBq U-235 eq	4.07E-3	1.29E-4	6.74E-5	4.26E-3	4.37E-5	4.17E-4	2.58E-6	-2.49E-3	2.24E-3
ETP-fw	CTUe	4.14E+0	2.40E-2	5.11E-2	4.22E+0	8.13E-3	7.38E-1	7.73E-3	-1.86E+0	3.11E+0
HTP-c	CTUh	7.00E-11	8.53E-13	2.91E-12	7.38E-11	2.89E-13	1.44E-11	1.58E-14	-3.25E-11	5.60E-11
HTP-nc	CTUh	1.95E-9	2.86E-11	9.06E-11	2.07E-9	9.69E-12	2.87E-10	1.52E-12	-8.98E-10	1.47E-9
SQP	Pt	2.87E+0	2.53E-2	4.34E-1	3.33E+0	8.56E-3	7.11E-2	1.43E-3	-5.04E+0	-1.63E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	5.01E-1	4.24E-4	1.10E-1	6.11E-1	1.44E-4	7.36E-3	2.03E-5	-8.78E-1	-2.59E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	5.01E-1	4.24E-4	1.10E-1	6.11E-1	1.44E-4	7.36E-3	2.03E-5	-8.78E-1	-2.59E-1
PENRE	MJ	1.72E+0	3.14E-2	3.11E-2	1.78E+0	1.06E-2	1.22E-1	6.00E-4	-9.43E-1	9.75E-1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.72E+0	3.14E-2	3.11E-2	1.78E+0	1.06E-2	1.22E-1	6.00E-4	-9.43E-1	9.75E-1
PET	MJ	2.22E+0	3.18E-2	1.41E-1	2.40E+0	1.08E-2	1.29E-1	6.20E-4	-1.82E+0	7.15E-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	1.24E-3	3.34E-6	1.02E-3	2.26E-3	1.13E-6	1.13E-4	6.88E-7	-1.11E-3	1.27E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.37E-5	7.55E-8	3.13E-8	1.38E-5	2.56E-8	2.08E-7	6.93E-10	-9.19E-7	1.31E-5
NHWD	kg	9.66E-3	1.83E-3	2.32E-4	1.17E-2	6.20E-4	4.57E-3	2.55E-3	-4.30E-3	1.52E-2
RWD	kg	3.85E-6	2.01E-7	6.33E-8	4.12E-6	6.81E-8	4.80E-7	3.67E-9	-2.33E-6	2.34E-6
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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