Environmental Profile

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

Ecochain v3.5.80

Product:	3025798 - PVC Access Plug GY 75 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

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

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Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	2.18E-1	7.26E-3	1.63E-2	2.41E-1	3.03E-3	1.49E-1	9.44E-4	-1.24E-1	2.69E-1
GWP-f	kg CO2 eq	2.61E-1	7.26E-3	1.18E-2	2.80E-1	3.03E-3	9.23E-2	9.44E-4	-1.48E-1	2.29E-1
GWP-b	kg CO2 eq	-4.35E-2	4.41E-6	4.52E-3	-3.89E-2	1.84E-6	5.62E-2	1.18E-6	2.33E-2	4.06E-2
GWP-luluc	kg CO2 eq	3.70E-4	2.57E-6	2.42E-5	3.97E-4	1.07E-6	3.75E-5	2.56E-8	-2.71E-4	1.64E-4
ODP	kg CFC11 eq	1.28E-7	1.67E-9	1.66E-9	1.31E-7	6.99E-10	1.03E-8	3.56E-11	-6.58E-8	7.64E-8
AP	mol H+ eq	1.29E-3	4.13E-5	1.20E-4	1.45E-3	1.73E-5	1.84E-4	8.66E-7	-6.30E-4	1.02E-3
EP-fw	kg P eq	1.27E-5	5.97E-8	3.02E-7	1.31E-5	2.49E-8	1.25E-6	1.14E-9	-7.00E-6	7.38E-6
EP-m	kg N eq	2.45E-4	1.48E-5	3.14E-5	2.91E-4	6.18E-6	4.64E-5	5.27E-7	-1.20E-4	2.24E-4
EP-T	mol N eq	2.64E-3	1.63E-4	4.42E-4	3.25E-3	6.81E-5	5.11E-4	3.45E-6	-1.31E-3	2.51E-3
POCP	kg NMVOC eq	8.34E-4	4.66E-5	9.29E-5	9.74E-4	1.95E-5	1.53E-4	1.18E-6	-4.27E-4	7.20E-4
ADP-mm	kg Sb eq	2.95E-4	1.88E-7	5.38E-7	2.96E-4	7.84E-8	7.25E-7	8.73E-10	-2.83E-6	2.94E-4
ADP-f	MJ	6.35E+0	1.11E-1	1.56E-1	6.62E+0	4.65E-2	4.91E-1	2.60E-3	-3.42E+0	3.74E+0
WDP	m3 depriv.	3.87E-1	3.42E-4	2.24E-1	6.12E-1	1.43E-4	1.86E-2	1.95E-5	-2.17E-1	4.14E-1
PM	disease inc.	1.04E-8	6.55E-10	1.58E-9	1.26E-8	2.74E-10	2.31E-9	1.79E-11	-6.10E-9	9.09E-9
IR	kBq U-235 eq	1.50E-2	4.87E-4	3.55E-4	1.58E-2	2.03E-4	1.74E-3	1.19E-5	-7.62E-3	1.02E-2
ETP-fw	CTUe	9.59E+0	9.05E-2	2.90E-1	9.97E+0	3.78E-2	3.60E+0	3.93E-2	-3.75E+0	9.91E+0
HTP-c	CTUh	2.35E-10	3.22E-12	1.62E-11	2.54E-10	1.34E-12	5.80E-11	7.28E-14	-9.68E-11	2.17E-10
HTP-nc	CTUh	7.10E-9	1.08E-10	5.10E-10	7.72E-9	4.50E-11	1.30E-9	7.60E-12	-2.91E-9	6.16E-9
SQP	Pt	5.63E+0	9.53E-2	2.52E+0	8.25E+0	3.98E-2	3.03E-1	6.62E-3	-7.87E+0	7.28E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.05E+0	1.60E-3	6.38E-1	1.69E+0	6.68E-4	3.44E-2	9.42E-5	-1.40E+0	3.29E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.05E+0	1.60E-3	6.38E-1	1.69E+0	6.68E-4	3.44E-2	9.42E-5	-1.40E+0	3.29E-1
PENRE	MJ	6.81E+0	1.18E-1	1.68E-1	7.10E+0	4.94E-2	5.22E-1	2.76E-3	-3.68E+0	3.99E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	6.81E+0	1.18E-1	1.68E-1	7.10E+0	4.94E-2	5.22E-1	2.76E-3	-3.68E+0	3.99E+0
PET	MJ	7.87E+0	1.20E-1	8.06E-1	8.79E+0	5.01E-2	5.57E-1	2.85E-3	-5.08E+0	4.32E+0
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	4.65E-3	1.26E-5	5.27E-3	9.93E-3	5.27E-6	5.14E-4	3.17E-6	-2.84E-3	7.61E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	4.19E-5	2.85E-7	1.62E-7	4.23E-5	1.19E-7	8.22E-7	3.18E-9	-3.14E-6	4.01E-5
NHWD	kg	3.00E-2	6.90E-3	1.20E-3	3.81E-2	2.88E-3	1.85E-2	1.15E-2	-1.33E-2	5.77E-2
RWD	kg	1.37E-5	7.58E-7	3.28E-7	1.48E-5	3.16E-7	1.91E-6	1.69E-8	-6.92E-6	1.01E-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

Ecochain Technologies BV
H.J.E. Wenckebachweg 123, 1096 AM Amsterdam, The Netherlands
https://www.ecochain.com
+31 20 3035 777