

Environmental Profile

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

Ecochain v3.5.80



Product: 3025932 - PVC Access Plug GY 63 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	☑	☑	☑	☑									

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

This document and supporting material contain confidential and proprietary business information of Wavin - FR - Varennes. These materials may be printed or (photo) copied or otherwise used only with the written consent of Wavin - FR - Varennes.

Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	1.27E-1	4.55E-3	1.10E-2	1.43E-1	1.79E-3	1.19E-1	5.71E-4	-7.37E-2	1.91E-1
GWP-f	kg CO2 eq	1.72E-1	4.55E-3	7.73E-3	1.84E-1	1.79E-3	6.26E-2	5.70E-4	-9.71E-2	1.52E-1
GWP-b	kg CO2 eq	-4.45E-2	2.76E-6	3.21E-3	-4.12E-2	1.09E-6	5.63E-2	6.97E-7	2.37E-2	3.87E-2
GWP-luluc	kg CO2 eq	2.90E-4	1.61E-6	1.83E-5	3.10E-4	6.34E-7	2.18E-5	1.56E-8	-2.37E-4	9.50E-5
ODP	kg CFC11 eq	7.61E-8	1.05E-9	1.11E-9	7.82E-8	4.13E-10	6.06E-9	2.12E-11	-3.94E-8	4.53E-8
AP	mol H+ eq	8.68E-4	2.59E-5	8.85E-5	9.83E-4	1.02E-5	1.12E-4	5.18E-7	-4.32E-4	6.74E-4
EP-fw	kg P eq	8.43E-6	3.74E-8	2.02E-7	8.67E-6	1.47E-8	7.30E-7	6.92E-10	-5.06E-6	4.36E-6
EP-m	kg N eq	1.73E-4	9.27E-6	2.28E-5	2.05E-4	3.65E-6	2.94E-5	3.30E-7	-8.60E-5	1.53E-4
EP-T	mol N eq	1.85E-3	1.02E-4	3.29E-4	2.29E-3	4.02E-5	3.23E-4	2.06E-6	-9.52E-4	1.70E-3
POCP	kg NMVOC eq	5.83E-4	2.92E-5	6.75E-5	6.79E-4	1.15E-5	9.66E-5	7.09E-7	-3.02E-4	4.86E-4
ADP-mm	kg Sb eq	1.98E-4	1.18E-7	4.10E-7	1.99E-4	4.63E-8	4.42E-7	5.25E-10	-1.81E-6	1.98E-4
ADP-f	MJ	4.11E+0	6.98E-2	1.00E-1	4.28E+0	2.75E-2	2.95E-1	1.55E-3	-2.18E+0	2.43E+0
WDP	m3 depriv.	2.30E-1	2.14E-4	1.26E-1	3.57E-1	8.44E-5	1.07E-2	1.28E-5	-1.41E-1	2.27E-1
PM	disease inc.	7.87E-9	4.11E-10	1.15E-9	9.42E-9	1.62E-10	1.43E-9	1.07E-11	-4.85E-9	6.18E-9
IR	kBq U-235 eq	1.00E-2	3.05E-4	2.10E-4	1.05E-2	1.20E-4	1.06E-3	7.08E-6	-5.19E-3	6.54E-3
ETP-fw	CTUe	7.28E+0	5.67E-2	2.15E-1	7.55E+0	2.23E-2	2.07E+0	2.23E-2	-3.02E+0	6.64E+0
HTP-c	CTUh	1.57E-10	2.02E-12	1.14E-11	1.71E-10	7.94E-13	3.65E-11	4.42E-14	-6.91E-11	1.39E-10
HTP-nc	CTUh	4.52E-9	6.76E-11	3.72E-10	4.96E-9	2.66E-11	7.68E-10	4.34E-12	-1.94E-9	3.82E-9
SQP	Pt	5.33E+0	5.97E-2	1.98E+0	7.37E+0	2.35E-2	1.83E-1	3.94E-3	-7.73E+0	-1.55E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	9.36E-1	1.00E-3	5.01E-1	1.44E+0	3.94E-4	2.01E-2	5.58E-5	-1.34E+0	1.15E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	9.36E-1	1.00E-3	5.01E-1	1.44E+0	3.94E-4	2.01E-2	5.58E-5	-1.34E+0	1.15E-1
PENRE	MJ	4.41E+0	7.41E-2	1.08E-1	4.59E+0	2.92E-2	3.14E-1	1.65E-3	-2.35E+0	2.59E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	4.41E+0	7.41E-2	1.08E-1	4.59E+0	2.92E-2	3.14E-1	1.65E-3	-2.35E+0	2.59E+0
PET	MJ	5.34E+0	7.51E-2	6.09E-1	6.03E+0	2.96E-2	3.34E-1	1.70E-3	-3.69E+0	2.70E+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	2.98E-3	7.90E-6	2.98E-3	5.96E-3	3.11E-6	3.04E-4	1.89E-6	-2.05E-3	4.22E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.78E-5	1.79E-7	9.11E-8	2.81E-5	7.03E-8	5.09E-7	1.91E-9	-2.12E-6	2.66E-5
NHWD	kg	2.07E-2	4.33E-3	6.80E-4	2.58E-2	1.70E-3	1.15E-2	6.91E-3	-9.27E-3	3.66E-2
RWD	kg	9.65E-6	4.75E-7	1.84E-7	1.03E-5	1.87E-7	1.18E-6	1.01E-8	-4.79E-6	6.89E-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



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