

Environmental Profile

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

Ecochain v3.5.80



Product: 3026117 - PVC Cover Female GY 315
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]

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Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	1.05E+0	4.28E-2	5.12E-2	1.15E+0	1.64E-2	6.58E-1	5.10E-3	-6.16E-1	1.21E+0
GWP-f	kg CO2 eq	1.22E+0	4.28E-2	4.05E-2	1.30E+0	1.64E-2	4.46E-1	5.10E-3	-6.71E-1	1.10E+0
GWP-b	kg CO2 eq	-1.75E-1	2.51E-5	1.07E-2	-1.64E-1	9.94E-6	2.12E-1	6.33E-6	5.57E-2	1.04E-1
GWP-luluc	kg CO2 eq	4.94E-3	1.55E-5	3.65E-5	4.99E-3	5.79E-6	1.99E-4	1.39E-7	-8.96E-4	4.30E-3
ODP	kg CFC11 eq	6.23E-7	9.83E-9	5.26E-9	6.38E-7	3.77E-9	5.44E-8	1.92E-10	-3.17E-7	3.79E-7
AP	mol H+ eq	6.08E-3	2.69E-4	2.20E-4	6.57E-3	9.33E-5	9.47E-4	4.67E-6	-2.77E-3	4.85E-3
EP-fw	kg P eq	6.03E-5	3.48E-7	9.63E-7	6.16E-5	1.35E-7	6.65E-6	6.21E-9	-2.90E-5	3.95E-5
EP-m	kg N eq	1.11E-3	9.28E-5	6.52E-5	1.27E-3	3.34E-5	2.34E-4	2.82E-6	-5.11E-4	1.03E-3
EP-T	mol N eq	1.20E-2	1.02E-3	7.75E-4	1.38E-2	3.68E-4	2.58E-3	1.86E-5	-5.55E-3	1.12E-2
POCP	kg NMVOC eq	3.82E-3	2.90E-4	1.93E-4	4.30E-3	1.05E-4	7.73E-4	6.39E-6	-1.85E-3	3.33E-3
ADP-mm	kg Sb eq	1.48E-3	1.09E-6	7.40E-7	1.48E-3	4.24E-7	3.74E-6	4.73E-9	-1.34E-5	1.47E-3
ADP-f	MJ	2.98E+1	6.54E-1	5.67E-1	3.11E+1	2.51E-1	2.57E+0	1.40E-2	-1.59E+1	1.80E+1
WDP	m3 depriv.	1.91E+0	1.99E-3	1.16E+0	3.06E+0	7.71E-4	9.90E-2	1.10E-4	-9.81E-1	2.18E+0
PM	disease inc.	4.51E-8	3.81E-9	3.24E-9	5.22E-8	1.48E-9	1.19E-8	9.64E-11	-2.35E-8	4.21E-8
IR	kBq U-235 eq	7.04E-2	2.86E-3	1.64E-3	7.49E-2	1.10E-3	9.06E-3	6.40E-5	-3.34E-2	5.17E-2
ETP-fw	CTUe	4.04E+1	5.29E-1	5.15E-1	4.14E+1	2.04E-1	1.92E+1	2.11E-1	-1.38E+1	4.72E+1
HTP-c	CTUh	1.18E-9	1.91E-11	4.07E-11	1.24E-9	7.26E-12	3.01E-10	3.96E-13	-4.20E-10	1.13E-9
HTP-nc	CTUh	3.47E-8	6.28E-10	1.04E-9	3.64E-8	2.43E-10	6.81E-9	4.08E-11	-1.30E-8	3.05E-8
SQP	Pt	2.25E+1	5.51E-1	2.41E+0	2.54E+1	2.15E-1	1.59E+0	3.57E-2	-2.41E+1	3.19E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.31E+0	9.30E-3	6.15E-1	4.94E+0	3.61E-3	1.83E-1	5.06E-4	-4.38E+0	7.45E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	4.31E+0	9.30E-3	6.15E-1	4.94E+0	3.61E-3	1.83E-1	5.06E-4	-4.38E+0	7.45E-1
PENRE	MJ	3.20E+1	6.95E-1	6.13E-1	3.33E+1	2.67E-1	2.73E+0	1.49E-2	-1.71E+1	1.92E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.20E+1	6.95E-1	6.13E-1	3.33E+1	2.67E-1	2.73E+0	1.49E-2	-1.71E+1	1.92E+1
PET	MJ	3.63E+1	7.04E-1	1.23E+0	3.82E+1	2.70E-1	2.92E+0	1.54E-2	-2.15E+1	1.99E+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	2.23E-2	7.33E-5	2.71E-2	4.95E-2	2.84E-5	2.72E-3	1.71E-5	-1.17E-2	4.05E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.08E-4	1.65E-6	8.47E-7	2.11E-4	6.43E-7	4.22E-6	1.72E-8	-1.41E-5	2.01E-4
NHWD	kg	1.42E-1	3.98E-2	6.20E-3	1.88E-1	1.56E-2	9.48E-2	6.23E-2	-5.85E-2	3.02E-1
RWD	kg	6.21E-5	4.45E-6	1.71E-6	6.82E-5	1.71E-6	9.80E-6	9.10E-8	-3.00E-5	4.98E-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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