

Environmental Profile

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

Ecochain v3.5.80



Product: 4006017 - PVC Endcap Spigot GY 250
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	5.87E-1	2.12E-2	2.60E-2	6.35E-1	8.25E-3	3.10E-1	2.56E-3	-3.32E-1	6.24E-1
GWP-f	kg CO2 eq	6.49E-1	2.12E-2	2.07E-2	6.91E-1	8.24E-3	2.25E-1	2.56E-3	-3.65E-1	5.62E-1
GWP-b	kg CO2 eq	-6.20E-2	1.29E-5	5.30E-3	-5.67E-2	5.00E-6	8.43E-2	3.20E-6	3.39E-2	6.15E-2
GWP-luluc	kg CO2 eq	8.02E-4	7.51E-6	1.73E-5	8.27E-4	2.92E-6	1.02E-4	6.88E-8	-5.06E-4	4.25E-4
ODP	kg CFC11 eq	3.41E-7	4.89E-9	2.68E-9	3.49E-7	1.90E-9	2.79E-8	9.66E-11	-1.75E-7	2.03E-7
AP	mol H+ eq	3.18E-3	1.21E-4	1.07E-4	3.41E-3	4.69E-5	4.83E-4	2.35E-6	-1.52E-3	2.42E-3
EP-fw	kg P eq	3.20E-5	1.75E-7	4.90E-7	3.27E-5	6.78E-8	3.39E-6	3.09E-9	-1.61E-5	2.00E-5
EP-m	kg N eq	5.82E-4	4.33E-5	3.21E-5	6.58E-4	1.68E-5	1.19E-4	1.43E-6	-2.78E-4	5.17E-4
EP-T	mol N eq	6.34E-3	4.77E-4	3.74E-4	7.19E-3	1.85E-4	1.31E-3	9.36E-6	-3.01E-3	5.68E-3
POCP	kg NMVOC eq	2.00E-3	1.36E-4	9.50E-5	2.23E-3	5.29E-5	3.93E-4	3.21E-6	-1.00E-3	1.68E-3
ADP-mm	kg Sb eq	8.35E-4	5.49E-7	3.46E-7	8.36E-4	2.13E-7	1.91E-6	2.36E-9	-7.37E-6	8.31E-4
ADP-f	MJ	1.59E+1	3.26E-1	2.91E-1	1.65E+1	1.26E-1	1.31E+0	7.05E-3	-8.70E+0	9.25E+0
WDP	m3 depriv.	1.04E+0	1.00E-3	6.02E-1	1.64E+0	3.88E-4	5.06E-2	5.02E-5	-5.46E-1	1.15E+0
PM	disease inc.	2.28E-8	1.92E-9	1.59E-9	2.63E-8	7.44E-10	6.03E-9	4.85E-11	-1.28E-8	2.03E-8
IR	kBq U-235 eq	3.74E-2	1.42E-3	8.51E-4	3.97E-2	5.53E-4	4.62E-3	3.23E-5	-1.85E-2	2.63E-2
ETP-fw	CTUe	2.21E+1	2.65E-1	2.49E-1	2.27E+1	1.03E-1	9.85E+0	1.08E-1	-7.74E+0	2.50E+1
HTP-c	CTUh	6.03E-10	9.41E-12	2.04E-11	6.33E-10	3.65E-12	1.49E-10	1.96E-13	-2.26E-10	5.60E-10
HTP-nc	CTUh	1.89E-8	3.15E-10	5.10E-10	1.97E-8	1.22E-10	3.47E-9	2.09E-11	-7.16E-9	1.61E-8
SQP	Pt	9.36E+0	2.79E-1	1.05E+0	1.07E+1	1.08E-1	8.05E-1	1.80E-2	-1.22E+1	-5.77E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.92E+0	4.67E-3	2.69E-1	2.20E+0	1.81E-3	9.32E-2	2.57E-4	-2.26E+0	3.37E-2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.92E+0	4.67E-3	2.69E-1	2.20E+0	1.81E-3	9.32E-2	2.57E-4	-2.26E+0	3.37E-2
PENRE	MJ	1.70E+1	3.46E-1	3.14E-1	1.77E+1	1.34E-1	1.39E+0	7.48E-3	-9.36E+0	9.87E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.70E+1	3.46E-1	3.14E-1	1.77E+1	1.34E-1	1.39E+0	7.48E-3	-9.36E+0	9.87E+0
PET	MJ	1.90E+1	3.51E-1	5.83E-1	1.99E+1	1.36E-1	1.48E+0	7.74E-3	-1.16E+1	9.91E+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	1.19E-2	3.69E-5	1.41E-2	2.61E-2	1.43E-5	1.39E-3	8.61E-6	-6.56E-3	2.09E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.17E-4	8.33E-7	4.41E-7	1.18E-4	3.23E-7	2.15E-6	8.61E-9	-7.63E-6	1.13E-4
NHWD	kg	7.28E-2	2.02E-2	3.23E-3	9.62E-2	7.84E-3	4.77E-2	3.13E-2	-3.17E-2	1.51E-1
RWD	kg	3.28E-5	2.22E-6	8.93E-7	3.59E-5	8.60E-7	4.99E-6	4.58E-8	-1.66E-5	2.52E-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