

Environmental Profile

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

Ecochain v3.5.80



Product: 3004177 - PVC Cap for Spigot GY 80
Unit: 1 piece
Manufacturer: Wavin - PL -Buk - Extra products

LCA standard: EN15804+A2 (2019)
Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off
Externally verified: Yes
Issue date: 08-06-2023
End of validity: 08-06-2028
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 - PL -Buk - Extra products (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	7.89E-2	8.13E-4	1.45E-4	7.98E-2	1.16E-3	7.64E-2	3.62E-4	-5.80E-2	9.97E-2
GWP-f	kg CO2 eq	1.11E-1	8.12E-4	1.46E-4	1.12E-1	1.15E-3	4.16E-2	3.62E-4	-6.11E-2	9.43E-2
GWP-b	kg CO2 eq	-3.26E-2	4.93E-7	-1.54E-6	-3.26E-2	7.01E-7	3.48E-2	4.65E-7	3.15E-3	5.41E-3
GWP-luluc	kg CO2 eq	1.16E-4	2.87E-7	1.49E-7	1.16E-4	4.09E-7	1.49E-5	9.30E-9	-7.24E-5	5.92E-5
ODP	kg CFC11 eq	5.23E-8	1.87E-10	8.26E-12	5.25E-8	2.66E-10	4.18E-9	1.36E-11	-2.62E-8	3.07E-8
AP	mol H+ eq	5.12E-4	4.63E-6	1.47E-6	5.18E-4	6.58E-6	7.18E-5	3.31E-7	-2.37E-4	3.59E-4
EP-fw	kg P eq	4.76E-6	6.68E-9	8.24E-9	4.78E-6	9.50E-9	5.01E-7	4.25E-10	-2.34E-6	2.95E-6
EP-m	kg N eq	9.21E-5	1.66E-6	1.55E-7	9.40E-5	2.35E-6	1.79E-5	2.08E-7	-4.55E-5	6.89E-5
EP-T	mol N eq	9.93E-4	1.82E-5	1.85E-6	1.01E-3	2.59E-5	1.97E-4	1.32E-6	-4.97E-4	7.41E-4
POCP	kg NMVOC eq	3.47E-4	5.21E-6	6.28E-7	3.53E-4	7.41E-6	5.87E-5	4.54E-7	-1.70E-4	2.50E-4
ADP-mm	kg Sb eq	2.95E-6	2.10E-8	1.97E-8	2.99E-6	2.99E-8	2.79E-7	3.29E-10	-1.11E-6	2.19E-6
ADP-f	MJ	2.72E+0	1.25E-2	1.36E-3	2.74E+0	1.77E-2	1.91E-1	9.96E-4	-1.40E+0	1.54E+0
WDP	m3 depriv.	1.61E-1	3.83E-5	5.22E-5	1.61E-1	5.44E-5	7.53E-3	5.37E-6	-7.78E-2	9.11E-2
PM	disease inc.	4.08E-9	7.33E-11	9.08E-12	4.16E-9	1.04E-10	8.80E-10	6.86E-12	-2.12E-9	3.03E-9
IR	kBq U-235 eq	5.59E-3	5.45E-5	1.02E-6	5.64E-3	7.74E-5	6.79E-4	4.60E-6	-2.76E-3	3.64E-3
ETP-fw	CTUe	2.29E+0	1.01E-2	1.21E-2	2.32E+0	1.44E-2	1.48E+0	1.64E-2	-1.09E+0	2.74E+0
HTP-c	CTUh	8.13E-11	3.60E-13	6.17E-13	8.23E-11	5.12E-13	2.16E-11	2.68E-14	-4.05E-11	6.40E-11
HTP-nc	CTUh	2.31E-9	1.21E-11	1.57E-11	2.34E-9	1.72E-11	5.18E-10	3.12E-12	-1.08E-9	1.80E-9
SQP	Pt	3.27E+0	1.07E-2	2.24E-3	3.28E+0	1.52E-2	1.16E-1	2.56E-3	-3.09E+0	3.23E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	7.39E-1	1.79E-4	2.40E-2	7.63E-1	2.54E-4	1.37E-2	3.78E-5	-5.16E-1	2.61E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	7.39E-1	1.79E-4	2.40E-2	7.63E-1	2.54E-4	1.37E-2	3.78E-5	-5.16E-1	2.61E-1
PENRE	MJ	2.92E+0	1.32E-2	1.44E-3	2.94E+0	1.88E-2	2.03E-1	1.06E-3	-1.51E+0	1.65E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.92E+0	1.32E-2	1.44E-3	2.94E+0	1.88E-2	2.03E-1	1.06E-3	-1.51E+0	1.65E+0
PET	MJ	3.66E+0	1.34E-2	2.55E-2	3.70E+0	1.91E-2	2.16E-1	1.09E-3	-2.03E+0	1.91E+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	1.87E-3	1.41E-6	1.46E-6	1.87E-3	2.01E-6	2.08E-4	1.23E-6	-9.19E-4	1.17E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.21E-6	3.19E-8	2.73E-13	2.24E-6	4.53E-8	3.14E-7	1.20E-9	-1.33E-6	1.27E-6
NHWD	kg	1.17E-2	7.73E-4	1.05E-6	1.25E-2	1.10E-3	7.29E-3	4.39E-3	-5.40E-3	1.98E-2
RWD	kg	5.02E-6	8.48E-8	1.10E-13	5.11E-6	1.20E-7	7.30E-7	6.49E-9	-2.52E-6	3.44E-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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