

Environmental Profile

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

Ecochain v3.5.80



Product: 3069818 - PVC Cap for Spigot GY 100
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	1.41E-1	2.05E-3	1.45E-4	1.43E-1	1.87E-3	9.83E-2	5.98E-4	-8.44E-2	1.59E-1
GWP-f	kg CO2 eq	1.72E-1	2.04E-3	1.46E-4	1.75E-1	1.86E-3	6.07E-2	5.98E-4	-9.37E-2	1.44E-1
GWP-b	kg CO2 eq	-3.17E-2	1.24E-6	-1.54E-6	-3.17E-2	1.13E-6	3.76E-2	7.45E-7	9.44E-3	1.54E-2
GWP-luluc	kg CO2 eq	2.10E-4	7.23E-7	1.49E-7	2.11E-4	6.60E-7	2.35E-5	1.60E-8	-1.37E-4	9.82E-5
ODP	kg CFC11 eq	8.08E-8	4.71E-10	8.26E-12	8.13E-8	4.30E-10	6.51E-9	2.21E-11	-4.18E-8	4.64E-8
AP	mol H+ eq	8.35E-4	1.16E-5	1.47E-6	8.48E-4	1.06E-5	1.14E-4	5.40E-7	-3.82E-4	5.91E-4
EP-fw	kg P eq	7.99E-6	1.68E-8	8.24E-9	8.01E-6	1.53E-8	7.86E-7	7.17E-10	-4.02E-6	4.79E-6
EP-m	kg N eq	1.53E-4	4.17E-6	1.55E-7	1.57E-4	3.80E-6	2.84E-5	3.30E-7	-7.21E-5	1.18E-4
EP-T	mol N eq	1.66E-3	4.59E-5	1.85E-6	1.71E-3	4.19E-5	3.13E-4	2.15E-6	-7.86E-4	1.28E-3
POCP	kg NMVOC eq	5.40E-4	1.31E-5	6.28E-7	5.54E-4	1.20E-5	9.34E-5	7.41E-7	-2.62E-4	3.99E-4
ADP-mm	kg Sb eq	1.49E-4	5.29E-8	1.97E-8	1.49E-4	4.82E-8	4.45E-7	5.45E-10	-1.78E-6	1.48E-4
ADP-f	MJ	4.10E+0	3.14E-2	1.36E-3	4.13E+0	2.86E-2	3.03E-1	1.62E-3	-2.18E+0	2.29E+0
WDP	m3 depriv.	2.51E-1	9.63E-5	5.22E-5	2.51E-1	8.79E-5	1.17E-2	1.20E-5	-1.31E-1	1.32E-1
PM	disease inc.	6.34E-9	1.84E-10	9.08E-12	6.54E-9	1.68E-10	1.41E-9	1.11E-11	-3.46E-9	4.67E-9
IR	kBq U-235 eq	9.11E-3	1.37E-4	1.02E-6	9.24E-3	1.25E-4	1.08E-3	7.40E-6	-4.56E-3	5.89E-3
ETP-fw	CTUe	5.36E+0	2.55E-2	1.21E-2	5.40E+0	2.32E-2	2.29E+0	2.52E-2	-2.00E+0	5.74E+0
HTP-c	CTUh	1.52E-10	9.06E-13	6.17E-13	1.53E-10	8.27E-13	3.59E-11	4.57E-14	-6.02E-11	1.30E-10
HTP-nc	CTUh	4.51E-9	3.04E-11	1.57E-11	4.56E-9	2.77E-11	8.14E-10	4.85E-12	-1.76E-9	3.64E-9
SQP	Pt	3.75E+0	2.68E-2	2.24E-3	3.78E+0	2.45E-2	1.86E-1	4.13E-3	-4.34E+0	-3.45E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	9.97E-1	4.50E-4	2.40E-2	1.02E+0	4.11E-4	2.16E-2	5.95E-5	-7.59E-1	2.85E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	9.97E-1	4.50E-4	2.40E-2	1.02E+0	4.11E-4	2.16E-2	5.95E-5	-7.59E-1	2.85E-1
PENRE	MJ	4.40E+0	3.33E-2	1.44E-3	4.43E+0	3.04E-2	3.23E-1	1.72E-3	-2.35E+0	2.44E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	4.40E+0	3.33E-2	1.44E-3	4.43E+0	3.04E-2	3.23E-1	1.72E-3	-2.35E+0	2.44E+0
PET	MJ	5.40E+0	3.38E-2	2.55E-2	5.45E+0	3.08E-2	3.44E-1	1.78E-3	-3.10E+0	2.73E+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	3.01E-3	3.55E-6	1.46E-6	3.02E-3	3.24E-6	3.24E-4	1.97E-6	-1.62E-3	1.73E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.17E-5	8.02E-8	2.73E-13	2.18E-5	7.32E-8	5.03E-7	1.98E-9	-2.00E-6	2.04E-5
NHWD	kg	1.88E-2	1.94E-3	1.05E-6	2.07E-2	1.77E-3	1.14E-2	7.09E-3	-8.24E-3	3.28E-2
RWD	kg	8.09E-6	2.13E-7	1.10E-13	8.30E-6	1.95E-7	1.17E-6	1.05E-8	-4.14E-6	5.53E-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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