

Environmental Profile

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

Ecochain v3.5.80



Product: 3001478 - PVC Cap for Spigot GY 200
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	5.24E-1	7.92E-3	1.45E-4	5.32E-1	7.14E-3	3.70E-1	2.27E-3	-3.14E-1	5.98E-1
GWP-f	kg CO2 eq	6.50E-1	7.92E-3	1.46E-4	6.58E-1	7.13E-3	2.19E-1	2.26E-3	-3.53E-1	5.34E-1
GWP-b	kg CO2 eq	-1.27E-1	4.81E-6	-1.54E-6	-1.27E-1	4.33E-6	1.51E-1	2.86E-6	3.96E-2	6.43E-2
GWP-luluc	kg CO2 eq	8.14E-4	2.80E-6	1.49E-7	8.17E-4	2.52E-6	9.08E-5	5.96E-8	-5.51E-4	3.59E-4
ODP	kg CFC11 eq	3.15E-7	1.82E-9	8.26E-12	3.16E-7	1.64E-9	2.53E-8	8.44E-11	-1.60E-7	1.84E-7
AP	mol H+ eq	3.13E-3	4.51E-5	1.47E-6	3.18E-3	4.06E-5	4.38E-4	2.06E-6	-1.47E-3	2.19E-3
EP-fw	kg P eq	3.05E-5	6.51E-8	8.24E-9	3.06E-5	5.87E-8	3.05E-6	2.69E-9	-1.57E-5	1.80E-5
EP-m	kg N eq	5.79E-4	1.61E-5	1.55E-7	5.96E-4	1.45E-5	1.09E-4	1.27E-6	-2.79E-4	4.42E-4
EP-T	mol N eq	6.26E-3	1.78E-4	1.85E-6	6.44E-3	1.60E-4	1.20E-3	8.19E-6	-3.04E-3	4.77E-3
POCP	kg NMVOC eq	2.03E-3	5.08E-5	6.28E-7	2.08E-3	4.58E-5	3.59E-4	2.82E-6	-1.01E-3	1.48E-3
ADP-mm	kg Sb eq	5.46E-4	2.05E-7	1.97E-8	5.47E-4	1.84E-7	1.72E-6	2.06E-9	-6.82E-6	5.42E-4
ADP-f	MJ	1.55E+1	1.22E-1	1.36E-3	1.56E+1	1.09E-1	1.17E+0	6.17E-3	-8.24E+0	8.69E+0
WDP	m3 depriv.	9.60E-1	3.73E-4	5.22E-5	9.60E-1	3.36E-4	4.55E-2	4.05E-5	-5.05E-1	5.01E-1
PM	disease inc.	2.39E-8	7.15E-10	9.08E-12	2.47E-8	6.44E-10	5.43E-9	4.25E-11	-1.36E-8	1.71E-8
IR	kBq U-235 eq	3.48E-2	5.31E-4	1.02E-6	3.54E-2	4.78E-4	4.17E-3	2.83E-5	-1.77E-2	2.24E-2
ETP-fw	CTUe	2.06E+1	9.87E-2	1.21E-2	2.07E+1	8.89E-2	8.94E+0	9.83E-2	-7.91E+0	2.20E+1
HTP-c	CTUh	5.86E-10	3.51E-12	6.17E-13	5.90E-10	3.16E-12	1.34E-10	1.71E-13	-2.34E-10	4.93E-10
HTP-nc	CTUh	1.74E-8	1.18E-10	1.57E-11	1.75E-8	1.06E-10	3.14E-9	1.88E-11	-6.82E-9	1.39E-8
SQP	Pt	1.49E+1	1.04E-1	2.24E-3	1.50E+1	9.36E-2	7.15E-1	1.58E-2	-1.76E+1	-1.74E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.32E+0	1.74E-3	2.40E-2	4.35E+0	1.57E-3	8.35E-2	2.30E-4	-3.08E+0	1.36E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	4.32E+0	1.74E-3	2.40E-2	4.35E+0	1.57E-3	8.35E-2	2.30E-4	-3.08E+0	1.36E+0
PENRE	MJ	1.66E+1	1.29E-1	1.44E-3	1.68E+1	1.16E-1	1.24E+0	6.55E-3	-8.86E+0	9.27E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.66E+1	1.29E-1	1.44E-3	1.68E+1	1.16E-1	1.24E+0	6.55E-3	-8.86E+0	9.27E+0
PET	MJ	2.10E+1	1.31E-1	2.55E-2	2.11E+1	1.18E-1	1.33E+0	6.78E-3	-1.19E+1	1.06E+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	1.13E-2	1.38E-5	1.46E-6	1.13E-2	1.24E-5	1.25E-3	7.55E-6	-6.31E-3	6.26E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	8.02E-5	3.11E-7	2.73E-13	8.05E-5	2.80E-7	1.94E-6	7.52E-9	-7.56E-6	7.52E-5
NHWD	kg	7.12E-2	7.53E-3	1.05E-6	7.88E-2	6.78E-3	4.33E-2	2.71E-2	-3.19E-2	1.24E-1
RWD	kg	3.10E-5	8.26E-7	1.10E-13	3.18E-5	7.44E-7	4.50E-6	4.01E-8	-1.60E-5	2.10E-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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