

Environmental Profile

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

Ecochain v3.5.80



Product: 3001471 - PVC Cap for Spigot DGY 250
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

This document and supporting material contain confidential and proprietary business information of Wavin - PL -Buk - Extra products. These materials may be printed or (photo) copied or otherwise used only with the written consent of Wavin - PL -Buk - Extra products.

Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	9.69E-1	1.03E-2	1.45E-4	9.79E-1	1.27E-2	5.77E-1	3.95E-3	-5.62E-1	1.01E+0
GWP-f	kg CO2 eq	1.12E+0	1.03E-2	1.46E-4	1.13E+0	1.27E-2	3.88E-1	3.95E-3	-6.10E-1	9.29E-1
GWP-b	kg CO2 eq	-1.56E-1	6.28E-6	-1.54E-6	-1.56E-1	7.70E-6	1.89E-1	5.13E-6	4.91E-2	8.22E-2
GWP-luluc	kg CO2 eq	1.19E-3	3.66E-6	1.49E-7	1.19E-3	4.49E-6	1.65E-4	9.99E-8	-7.99E-4	5.61E-4
ODP	kg CFC11 eq	5.77E-7	2.38E-9	8.26E-12	5.80E-7	2.92E-9	4.64E-8	1.50E-10	-2.81E-7	3.48E-7
AP	mol H+ eq	5.14E-3	5.89E-5	1.47E-6	5.20E-3	7.23E-5	7.83E-4	3.62E-6	-2.46E-3	3.60E-3
EP-fw	kg P eq	4.97E-5	8.51E-8	8.24E-9	4.98E-5	1.04E-7	5.55E-6	4.60E-9	-2.57E-5	2.98E-5
EP-m	kg N eq	9.19E-4	2.11E-5	1.55E-7	9.40E-4	2.59E-5	1.93E-4	2.30E-6	-4.57E-4	7.04E-4
EP-T	mol N eq	9.80E-3	2.32E-4	1.85E-6	1.00E-2	2.85E-4	2.12E-3	1.45E-5	-4.96E-3	7.50E-3
POCP	kg NMVOC eq	3.32E-3	6.64E-5	6.28E-7	3.39E-3	8.14E-5	6.33E-4	4.98E-6	-1.66E-3	2.45E-3
ADP-mm	kg Sb eq	3.14E-5	2.68E-7	1.97E-8	3.17E-5	3.28E-7	3.08E-6	3.58E-9	-1.18E-5	2.33E-5
ADP-f	MJ	2.76E+1	1.59E-1	1.36E-3	2.78E+1	1.95E-1	2.09E+0	1.09E-2	-1.43E+1	1.57E+1
WDP	m3 depriv.	1.72E+0	4.87E-4	5.22E-5	1.73E+0	5.97E-4	8.35E-2	5.08E-5	-8.66E-1	9.44E-1
PM	disease inc.	3.86E-8	9.33E-10	9.08E-12	3.96E-8	1.14E-9	9.60E-9	7.52E-11	-2.10E-8	2.94E-8
IR	kBq U-235 eq	5.86E-2	6.94E-4	1.02E-6	5.93E-2	8.51E-4	7.46E-3	5.06E-5	-2.97E-2	3.80E-2
ETP-fw	CTUe	2.55E+1	1.29E-1	1.21E-2	2.56E+1	1.58E-1	1.66E+1	1.83E-1	-1.22E+1	3.03E+1
HTP-c	CTUh	8.16E-10	4.59E-12	6.17E-13	8.21E-10	5.63E-12	2.24E-10	2.88E-13	-3.79E-10	6.72E-10
HTP-nc	CTUh	2.50E-8	1.54E-10	1.57E-11	2.52E-8	1.88E-10	5.67E-9	3.47E-11	-1.15E-8	1.96E-8
SQP	Pt	1.96E+1	1.36E-1	2.24E-3	1.98E+1	1.67E-1	1.27E+0	2.81E-2	-2.26E+1	-1.35E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	6.77E+0	2.28E-3	2.40E-2	6.80E+0	2.79E-3	1.52E-1	4.19E-4	-4.04E+0	2.91E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	6.77E+0	2.28E-3	2.40E-2	6.80E+0	2.79E-3	1.52E-1	4.19E-4	-4.04E+0	2.91E+0
PENRE	MJ	2.96E+1	1.69E-1	1.44E-3	2.98E+1	2.07E-1	2.22E+0	1.16E-2	-1.54E+1	1.68E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.96E+1	1.69E-1	1.44E-3	2.98E+1	2.07E-1	2.22E+0	1.16E-2	-1.54E+1	1.68E+1
PET	MJ	3.64E+1	1.71E-1	2.55E-2	3.66E+1	2.09E-1	2.38E+0	1.20E-2	-1.95E+1	1.97E+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	1.91E-2	1.80E-5	1.46E-6	1.91E-2	2.20E-5	2.29E-3	1.35E-5	-1.04E-2	1.11E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.29E-5	4.06E-7	2.73E-13	2.33E-5	4.98E-7	3.43E-6	1.31E-8	-1.29E-5	1.44E-5
NHWD	kg	1.16E-1	9.84E-3	1.05E-6	1.25E-1	1.21E-2	7.63E-2	4.82E-2	-5.24E-2	2.10E-1
RWD	kg	5.23E-5	1.08E-6	1.10E-13	5.34E-5	1.32E-6	7.98E-6	7.13E-8	-2.67E-5	3.61E-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