

Environmental Profile

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

Ecochain v3.5.80



Product: 3001484 - PVC Combi Cap GY 125
Unit: 1 piece
Manufacturer: Wavin - PL -Buk - Extra products

With the PVC range to be glued Wavin, you benefit from a complete choice of pipes and fittings 100% compatible, in all standard sizes on the market, from 32 to 315mm. This system includes a wide range of special accessories: branch saddles, flexible connectors, etc. Certified quality: Wavin glue-on PVC products benefit from the necessary certifications in France (NF-E).

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	2.77E-1	4.24E-3	1.45E-4	2.81E-1	3.76E-3	1.91E-1	1.20E-3	-1.71E-1	3.06E-1
GWP-f	kg CO2 eq	3.40E-1	4.24E-3	1.46E-4	3.44E-1	3.76E-3	1.18E-1	1.20E-3	-1.84E-1	2.84E-1
GWP-b	kg CO2 eq	-6.33E-2	2.57E-6	-1.54E-6	-6.33E-2	2.28E-6	7.27E-2	1.51E-6	1.30E-2	2.24E-2
GWP-luluc	kg CO2 eq	3.89E-4	1.50E-6	1.49E-7	3.90E-4	1.33E-6	4.75E-5	3.17E-8	-2.35E-4	2.04E-4
ODP	kg CFC11 eq	1.64E-7	9.77E-10	8.26E-12	1.65E-7	8.67E-10	1.32E-8	4.45E-11	-8.37E-8	9.54E-8
AP	mol H+ eq	1.64E-3	2.41E-5	1.47E-6	1.67E-3	2.14E-5	2.27E-4	1.09E-6	-7.39E-4	1.18E-3
EP-fw	kg P eq	1.57E-5	3.49E-8	8.24E-9	1.58E-5	3.09E-8	1.59E-6	1.43E-9	-7.59E-6	9.81E-6
EP-m	kg N eq	2.96E-4	8.64E-6	1.55E-7	3.05E-4	7.66E-6	5.62E-5	6.69E-7	-1.38E-4	2.31E-4
EP-T	mol N eq	3.22E-3	9.52E-5	1.85E-6	3.32E-3	8.45E-5	6.20E-4	4.33E-6	-1.50E-3	2.53E-3
POCP	kg NMVOC eq	1.06E-3	2.72E-5	6.28E-7	1.09E-3	2.41E-5	1.85E-4	1.49E-6	-5.07E-4	7.90E-4
ADP-mm	kg Sb eq	2.98E-4	1.10E-7	1.97E-8	2.98E-4	9.73E-8	8.90E-7	1.09E-9	-3.54E-6	2.95E-4
ADP-f	MJ	8.15E+0	6.51E-2	1.36E-3	8.22E+0	5.77E-2	6.08E-1	3.26E-3	-4.30E+0	4.58E+0
WDP	m3 depriv.	5.05E-1	2.00E-4	5.22E-5	5.05E-1	1.77E-4	2.38E-2	2.24E-5	-2.55E-1	2.74E-1
PM	disease inc.	1.22E-8	3.83E-10	9.08E-12	1.26E-8	3.39E-10	2.81E-9	2.24E-11	-6.40E-9	9.35E-9
IR	kBq U-235 eq	1.81E-2	2.84E-4	1.02E-6	1.84E-2	2.52E-4	2.16E-3	1.49E-5	-8.82E-3	1.20E-2
ETP-fw	CTUe	1.01E+1	5.28E-2	1.21E-2	1.01E+1	4.69E-2	4.67E+0	5.14E-2	-3.57E+0	1.13E+1
HTP-c	CTUh	3.08E-10	1.88E-12	6.17E-13	3.11E-10	1.67E-12	7.03E-11	9.09E-14	-1.18E-10	2.65E-10
HTP-nc	CTUh	9.14E-9	6.30E-11	1.57E-11	9.22E-9	5.59E-11	1.64E-9	9.88E-12	-3.43E-9	7.49E-9
SQP	Pt	7.29E+0	5.57E-2	2.24E-3	7.34E+0	4.94E-2	3.73E-1	8.33E-3	-7.63E+0	1.43E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	2.19E+0	9.34E-4	2.40E-2	2.21E+0	8.28E-4	4.37E-2	1.21E-4	-1.33E+0	9.26E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	2.19E+0	9.34E-4	2.40E-2	2.21E+0	8.28E-4	4.37E-2	1.21E-4	-1.33E+0	9.26E-1
PENRE	MJ	8.74E+0	6.91E-2	1.44E-3	8.81E+0	6.13E-2	6.47E-1	3.46E-3	-4.63E+0	4.89E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	8.74E+0	6.91E-2	1.44E-3	8.81E+0	6.13E-2	6.47E-1	3.46E-3	-4.63E+0	4.89E+0
PET	MJ	1.09E+1	7.00E-2	2.55E-2	1.10E+1	6.21E-2	6.91E-1	3.58E-3	-5.96E+0	5.82E+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	5.93E-3	7.36E-6	1.46E-6	5.94E-3	6.53E-6	6.56E-4	3.98E-6	-3.03E-3	3.58E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	4.34E-5	1.66E-7	2.73E-13	4.35E-5	1.48E-7	1.00E-6	3.98E-9	-3.91E-6	4.08E-5
NHWD	kg	3.67E-2	4.03E-3	1.05E-6	4.07E-2	3.58E-3	2.27E-2	1.43E-2	-1.61E-2	6.52E-2
RWD	kg	1.60E-5	4.43E-7	1.10E-13	1.64E-5	3.93E-7	2.33E-6	2.12E-8	-7.98E-6	1.12E-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