

Environmental Profile

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

Ecochain v3.5.80



Product: 3026026 - PVC Branch 87°3 GY 32 S/S/S BC
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

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Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	9.98E-2	9.42E-3	1.45E-4	1.09E-1	1.34E-3	8.60E-2	4.17E-4	-6.84E-2	1.29E-1
GWP-f	kg CO2 eq	1.32E-1	9.41E-3	1.46E-4	1.42E-1	1.34E-3	5.08E-2	4.17E-4	-7.21E-2	1.22E-1
GWP-b	kg CO2 eq	-3.25E-2	5.72E-6	-1.54E-6	-3.25E-2	8.15E-7	3.51E-2	5.43E-7	3.79E-3	6.41E-3
GWP-luluc	kg CO2 eq	1.35E-4	3.33E-6	1.49E-7	1.38E-4	4.75E-7	1.76E-5	1.05E-8	-8.26E-5	7.39E-5
ODP	kg CFC11 eq	6.17E-8	2.17E-9	8.26E-12	6.39E-8	3.09E-10	4.94E-9	1.59E-11	-3.06E-8	3.86E-8
AP	mol H+ eq	6.01E-4	5.36E-5	1.47E-6	6.56E-4	7.65E-6	8.46E-5	3.83E-7	-2.73E-4	4.76E-4
EP-fw	kg P eq	5.65E-6	7.75E-8	8.24E-9	5.73E-6	1.10E-8	5.90E-7	4.86E-10	-2.71E-6	3.63E-6
EP-m	kg N eq	1.08E-4	1.92E-5	1.55E-7	1.28E-4	2.74E-6	2.11E-5	2.44E-7	-5.22E-5	9.96E-5
EP-T	mol N eq	1.16E-3	2.11E-4	1.85E-6	1.38E-3	3.02E-5	2.33E-4	1.53E-6	-5.69E-4	1.07E-3
POCP	kg NMVOC eq	4.11E-4	6.04E-5	6.28E-7	4.72E-4	8.62E-6	6.91E-5	5.26E-7	-1.94E-4	3.57E-4
ADP-mm	kg Sb eq	3.36E-6	2.43E-7	1.97E-8	3.62E-6	3.47E-8	3.27E-7	3.79E-10	-1.28E-6	2.70E-6
ADP-f	MJ	3.27E+0	1.44E-1	1.36E-3	3.41E+0	2.06E-2	2.23E-1	1.16E-3	-1.65E+0	2.01E+0
WDP	m3 depriv.	1.91E-1	4.43E-4	5.22E-5	1.92E-1	6.32E-5	8.88E-3	5.29E-6	-9.07E-2	1.10E-1
PM	disease inc.	4.72E-9	8.50E-10	9.08E-12	5.57E-9	1.21E-10	1.03E-9	7.96E-12	-2.39E-9	4.34E-9
IR	kBq U-235 eq	6.59E-3	6.32E-4	1.02E-6	7.22E-3	9.01E-5	7.97E-4	5.35E-6	-3.19E-3	4.93E-3
ETP-fw	CTUe	2.71E+0	1.17E-1	1.21E-2	2.84E+0	1.67E-2	1.76E+0	1.94E-2	-1.25E+0	3.38E+0
HTP-c	CTUh	9.47E-11	4.17E-12	6.17E-13	9.95E-11	5.95E-13	2.50E-11	3.04E-14	-4.53E-11	7.97E-11
HTP-nc	CTUh	2.74E-9	1.40E-10	1.57E-11	2.90E-9	1.99E-11	6.11E-10	3.68E-12	-1.24E-9	2.29E-9
SQP	Pt	3.37E+0	1.24E-1	2.24E-3	3.50E+0	1.76E-2	1.36E-1	2.97E-3	-3.24E+0	4.14E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	8.64E-1	2.07E-3	2.40E-2	8.90E-1	2.96E-4	1.62E-2	4.44E-5	-5.47E-1	3.59E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	8.64E-1	2.07E-3	2.40E-2	8.90E-1	2.96E-4	1.62E-2	4.44E-5	-5.47E-1	3.59E-1
PENRE	MJ	3.51E+0	1.53E-1	1.44E-3	3.66E+0	2.19E-2	2.38E-1	1.23E-3	-1.78E+0	2.14E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.51E+0	1.53E-1	1.44E-3	3.66E+0	2.19E-2	2.38E-1	1.23E-3	-1.78E+0	2.14E+0
PET	MJ	4.37E+0	1.55E-1	2.55E-2	4.55E+0	2.22E-2	2.54E-1	1.27E-3	-2.33E+0	2.50E+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	2.22E-3	1.64E-5	1.46E-6	2.24E-3	2.33E-6	2.45E-4	1.43E-6	-1.07E-3	1.42E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.56E-6	3.69E-7	2.73E-13	2.93E-6	5.27E-8	3.68E-7	1.39E-9	-1.55E-6	1.80E-6
NHWD	kg	1.36E-2	8.95E-3	1.05E-6	2.25E-2	1.28E-3	8.60E-3	5.11E-3	-6.10E-3	3.14E-2
RWD	kg	5.90E-6	9.83E-7	1.10E-13	6.88E-6	1.40E-7	8.55E-7	7.55E-9	-2.91E-6	4.97E-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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