

Environmental Profile

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

Ecochain v3.5.80



Product: 3044154 - PVC Corr. shaft Pipe 315 Coupler 2 seals
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	4.56E+0	3.10E-2	8.79E-2	4.68E+0	7.47E-2	5.84E+0	2.62E-2	-3.34E+0	7.28E+0
GWP-f	kg CO2 eq	6.94E+0	3.10E-2	8.87E-2	7.06E+0	7.46E-2	3.44E+0	2.62E-2	-3.32E+0	7.28E+0
GWP-b	kg CO2 eq	-2.38E+0	1.88E-5	-9.36E-4	-2.38E+0	4.53E-5	2.40E+0	3.15E-5	-1.75E-2	-1.55E-3
GWP-luluc	kg CO2 eq	6.39E-3	1.10E-5	9.07E-5	6.49E-3	2.64E-5	8.13E-4	6.59E-7	-2.08E-3	5.25E-3
ODP	kg CFC11 eq	3.13E-6	7.14E-9	5.02E-9	3.14E-6	1.72E-8	2.21E-7	9.52E-10	-1.39E-6	1.99E-6
AP	mol H+ eq	3.43E-2	1.76E-4	8.95E-4	3.53E-2	4.25E-4	4.17E-3	2.31E-5	-1.17E-2	2.83E-2
EP-fw	kg P eq	2.81E-4	2.55E-7	5.00E-6	2.87E-4	6.14E-7	2.71E-5	2.98E-8	-1.02E-4	2.12E-4
EP-m	kg N eq	5.93E-3	6.31E-5	9.42E-5	6.09E-3	1.52E-4	1.09E-3	2.00E-5	-2.21E-3	5.14E-3
EP-T	mol N eq	6.64E-2	6.96E-4	1.13E-3	6.82E-2	1.68E-3	1.20E-2	9.20E-5	-2.53E-2	5.67E-2
POCP	kg NMVOC eq	2.41E-2	1.99E-4	3.81E-4	2.47E-2	4.79E-4	3.53E-3	3.18E-5	-7.96E-3	2.08E-2
ADP-mm	kg Sb eq	7.80E-4	8.01E-7	1.19E-5	7.93E-4	1.93E-6	1.52E-5	2.29E-8	-7.50E-5	7.35E-4
ADP-f	MJ	1.78E+2	4.75E-1	8.24E-1	1.79E+2	1.15E+0	1.07E+1	6.93E-2	-7.57E+1	1.15E+2
WDP	m3 depriv.	8.98E+0	1.46E-3	3.17E-2	9.01E+0	3.52E-3	4.18E-1	4.17E-4	-3.81E+0	5.62E+0
PM	disease inc.	3.91E-7	2.80E-9	5.51E-9	3.99E-7	6.74E-9	5.00E-8	4.75E-10	-8.59E-8	3.70E-7
IR	kBq U-235 eq	4.43E-1	2.08E-3	6.18E-4	4.45E-1	5.01E-3	3.72E-2	3.21E-4	-1.32E-1	3.56E-1
ETP-fw	CTUe	1.31E+2	3.86E-1	7.34E+0	1.39E+2	9.30E-1	7.90E+1	8.66E-1	-4.79E+1	1.72E+2
HTP-c	CTUh	5.02E-9	1.37E-11	3.74E-10	5.41E-9	3.31E-11	1.32E-9	1.85E-12	-1.59E-9	5.17E-9
HTP-nc	CTUh	1.35E-7	4.60E-10	9.50E-9	1.45E-7	1.11E-9	2.87E-8	1.73E-10	-5.30E-8	1.22E-7
SQP	Pt	2.45E+2	4.07E-1	1.36E+0	2.46E+2	9.80E-1	6.64E+0	1.76E-1	-5.38E+1	2.00E+2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.55E+1	6.82E-3	1.46E+1	6.01E+1	1.64E-2	7.49E-1	2.64E-3	-1.22E+1	4.87E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	4.55E+1	6.82E-3	1.46E+1	6.01E+1	1.64E-2	7.49E-1	2.64E-3	-1.22E+1	4.87E+1
PENRE	MJ	1.90E+2	5.05E-1	8.77E-1	1.92E+2	1.22E+0	1.13E+1	7.36E-2	-8.19E+1	1.23E+2
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.90E+2	5.05E-1	8.77E-1	1.92E+2	1.22E+0	1.13E+1	7.36E-2	-8.19E+1	1.23E+2
PET	MJ	2.36E+2	5.12E-1	1.55E+1	2.52E+2	1.23E+0	1.21E+1	7.62E-2	-9.41E+1	1.71E+2
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	1.16E-1	5.38E-5	8.86E-4	1.17E-1	1.30E-4	1.32E-2	8.51E-5	-4.10E-2	8.91E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.48E-4	1.22E-6	1.66E-10	1.50E-4	2.93E-6	1.83E-5	8.38E-8	-6.78E-5	1.03E-4
NHWD	kg	7.36E-1	2.95E-2	6.40E-4	7.66E-1	7.10E-2	4.64E-1	3.13E-1	-2.27E-1	1.39E+0
RWD	kg	4.78E-4	3.23E-6	6.65E-11	4.81E-4	7.79E-6	4.03E-5	4.53E-7	-1.21E-4	4.09E-4
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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