

Environmental Profile

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

Ecochain v3.5.80



Product: 3025997 - PVC Coupler GY 160 S/S BC
 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



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).

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

A1 Raw material supply A2 Transport A3 Manufacturing

Construction process stage

A4 Transport gate to site
 A5 Assembly / Construction installation process

Use stage

B1 Use B2 Maintenance B3 Repair B4 Replacement B5 Refurbishment
 B6 Operational energy use B7 Operational water use

End-of-Life stage

C1 De-construction demolition C2 Transport C3 Waste processing
 C4 Disposal

Benefits and loads beyond the system boundaries

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	9.44E-1	9.03E-2	1.45E-4	1.03E+0	1.26E-2	6.66E-1	3.91E-3	-5.57E-1	1.16E+0
GWP-f	kg CO2 eq	1.17E+0	9.02E-2	1.46E-4	1.26E+0	1.26E-2	3.96E-1	3.91E-3	-6.37E-1	1.03E+0
GWP-b	kg CO2 eq	-2.23E-1	5.48E-5	-1.54E-6	-2.23E-1	7.64E-6	2.70E-1	5.09E-6	8.02E-2	1.27E-1
GWP-luluc	kg CO2 eq	1.40E-3	3.19E-5	1.49E-7	1.43E-3	4.45E-6	1.65E-4	9.88E-8	-1.04E-3	5.52E-4
ODP	kg CFC11 eq	5.79E-7	2.08E-8	8.26E-12	6.00E-7	2.90E-9	4.66E-8	1.49E-10	-2.83E-7	3.67E-7
AP	mol H+ eq	5.34E-3	5.14E-4	1.47E-6	5.86E-3	7.17E-5	7.97E-4	3.59E-6	-2.65E-3	4.08E-3
EP-fw	kg P eq	5.20E-5	7.42E-7	8.24E-9	5.27E-5	1.04E-7	5.55E-6	4.55E-9	-2.86E-5	2.98E-5
EP-m	kg N eq	9.90E-4	1.84E-4	1.55E-7	1.17E-3	2.56E-5	1.99E-4	2.29E-6	-5.05E-4	8.95E-4
EP-T	mol N eq	1.05E-2	2.03E-3	1.85E-6	1.25E-2	2.83E-4	2.19E-3	1.44E-5	-5.52E-3	9.49E-3
POCP	kg NMVOC eq	3.52E-3	5.79E-4	6.28E-7	4.10E-3	8.08E-5	6.52E-4	4.93E-6	-1.82E-3	3.02E-3
ADP-mm	kg Sb eq	3.11E-5	2.33E-6	1.97E-8	3.35E-5	3.26E-7	3.13E-6	3.55E-9	-1.21E-5	2.48E-5
ADP-f	MJ	2.83E+1	1.38E+0	1.36E-3	2.97E+1	1.93E-1	2.11E+0	1.08E-2	-1.48E+1	1.73E+1
WDP	m3 depriv.	1.73E+0	4.25E-3	5.22E-5	1.74E+0	5.93E-4	8.33E-2	4.95E-5	-9.07E-1	9.14E-1
PM	disease inc.	4.23E-8	8.14E-9	9.08E-12	5.05E-8	1.14E-9	9.81E-9	7.46E-11	-2.50E-8	3.65E-8
IR	kBq U-235 eq	6.04E-2	6.05E-3	1.02E-6	6.64E-2	8.44E-4	7.56E-3	5.02E-5	-3.18E-2	4.30E-2
ETP-fw	CTUe	2.94E+1	1.12E+0	1.21E-2	3.06E+1	1.57E-1	1.65E+1	1.82E-1	-1.47E+1	3.27E+1
HTP-c	CTUh	8.49E-10	4.00E-11	6.17E-13	8.90E-10	5.58E-12	2.28E-10	2.85E-13	-4.19E-10	7.05E-10
HTP-nc	CTUh	2.54E-8	1.34E-9	1.57E-11	2.67E-8	1.87E-10	5.69E-9	3.45E-11	-1.22E-8	2.04E-8
SQP	Pt	2.64E+1	1.18E+0	2.24E-3	2.76E+1	1.65E-1	1.28E+0	2.79E-2	-3.28E+1	-3.75E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	7.56E+0	1.99E-2	2.40E-2	7.61E+0	2.77E-3	1.52E-1	4.16E-4	-5.75E+0	2.01E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	7.56E+0	1.99E-2	2.40E-2	7.61E+0	2.77E-3	1.52E-1	4.16E-4	-5.75E+0	2.01E+0
PENRE	MJ	3.04E+1	1.47E+0	1.44E-3	3.19E+1	2.05E-1	2.25E+0	1.15E-2	-1.59E+1	1.84E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.04E+1	1.47E+0	1.44E-3	3.19E+1	2.05E-1	2.25E+0	1.15E-2	-1.59E+1	1.84E+1
PET	MJ	3.79E+1	1.49E+0	2.55E-2	3.95E+1	2.08E-1	2.40E+0	1.19E-2	-2.16E+1	2.04E+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	1.96E-2	1.57E-4	1.46E-6	1.97E-2	2.19E-5	2.29E-3	1.34E-5	-1.15E-2	1.05E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.38E-5	3.54E-6	2.73E-13	2.73E-5	4.94E-7	3.50E-6	1.30E-8	-1.36E-5	1.77E-5
NHWD	kg	1.23E-1	8.58E-2	1.05E-6	2.09E-1	1.20E-2	7.77E-2	4.79E-2	-5.72E-2	2.90E-1
RWD	kg	5.43E-5	9.41E-6	1.10E-13	6.37E-5	1.31E-6	8.15E-6	7.08E-8	-2.89E-5	4.43E-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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