

Environmental Profile

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

Ecochain v3.5.80



Product: 3004665 - PVC Electro Pipe GY 3/4" L=4
Unit: 1 piece
Manufacturer: Wavin - NL - Hardenberg - Verified
Address: J.C. Kellerlaan 3
7772 SG Hardenberg
Netherlands

LCA standard: NMD Bepalingsmethode 1.1 (2022)
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 Wavin electro PVC you not only opt for a complete range, but also for high quality.

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 - NL - Hardenberg - Verified (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					D Reuse- Recovery- Recycling- potential											
A5 Assembly / Construction installation process																

Results

Environmental impact SBK set 1	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
ECI	euro	0.08	0	0	0.09	0	0.03	0	-0.04	0.08
ADPE	kg Sb-eq	2.06E-5	4.43E-7	6.60E-7	2.18E-5	2.81E-7	2.38E-6	2.96E-9	-8.63E-6	1.58E-5
ADPF	kg Sb-eq	9.17E-3	1.27E-4	1.77E-4	9.47E-3	7.90E-5	8.38E-4	4.18E-6	-4.89E-3	5.50E-3
GWP	kg CO2-eq	7.37E-1	1.73E-2	3.14E-2	7.86E-1	1.08E-2	2.80E-1	2.70E-3	-4.11E-1	6.68E-1
ODP	kg CFC-11-eq	4.33E-7	3.07E-9	2.95E-9	4.39E-7	2.00E-9	3.43E-8	1.00E-10	-2.14E-7	2.62E-7
POCP	kg ethene-eq	4.55E-4	1.05E-5	1.38E-5	4.79E-4	6.46E-6	6.57E-5	7.13E-7	-2.13E-4	3.40E-4
AP	kg SO2-eq	2.83E-3	7.62E-5	1.23E-4	3.03E-3	4.63E-5	4.83E-4	2.23E-6	-1.35E-3	2.22E-3
EP	kg PO4 3--eq	3.40E-4	1.50E-5	1.95E-5	3.74E-4	9.25E-6	7.30E-5	8.70E-7	-1.63E-4	2.94E-4
HTP	kg 1,4-DB-eq	2.86E-1	7.30E-3	1.19E-2	3.05E-1	4.60E-3	1.29E-1	2.32E-4	-1.30E-1	3.08E-1
FAETP	kg 1,4-DB-eq	6.20E-3	2.13E-4	4.83E-4	6.90E-3	1.35E-4	1.91E-3	7.12E-5	-2.85E-3	6.16E-3
MAETP	kg 1,4-DB-eq	1.81E+1	7.66E-1	1.97E+0	2.08E+1	4.82E-1	6.32E+0	8.65E-2	-8.39E+0	1.93E+1
TETP	kg 1,4-DB-eq	2.00E-3	2.58E-5	7.37E-4	2.77E-3	1.63E-5	4.60E-4	7.66E-7	-9.49E-4	2.29E-3
Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	7.07E-1	1.75E-2	3.70E-2	7.61E-1	1.09E-2	3.38E-1	3.14E-3	-4.24E-1	6.89E-1
GWP-f	kg CO2 eq	7.56E-1	1.75E-2	2.90E-2	8.03E-1	1.08E-2	2.82E-1	3.14E-3	-4.21E-1	6.78E-1
GWP-b	kg CO2 eq	-5.02E-2	8.07E-6	6.27E-3	-4.39E-2	6.59E-6	5.60E-2	4.03E-6	-2.96E-3	9.16E-3
GWP-luluc	kg CO2 eq	6.10E-4	6.40E-6	1.77E-3	2.38E-3	3.84E-6	1.30E-4	8.33E-8	-2.82E-4	2.24E-3
ODP	kg CFC11 eq	4.27E-7	3.86E-9	3.50E-9	4.34E-7	2.50E-9	3.53E-8	1.25E-10	-2.11E-7	2.61E-7
AP	mol H+ eq	3.42E-3	1.01E-4	1.58E-4	3.68E-3	6.18E-5	6.06E-4	2.99E-6	-1.63E-3	2.72E-3
EP-fw	kg P eq	3.34E-5	1.76E-7	4.15E-7	3.40E-5	8.92E-8	4.34E-6	3.78E-9	-1.57E-5	2.28E-5
EP-m	kg N eq	5.78E-4	3.57E-5	4.66E-5	6.60E-4	2.21E-5	1.47E-4	1.84E-6	-2.84E-4	5.48E-4
EP-T	mol N eq	6.26E-3	3.94E-4	5.00E-4	7.15E-3	2.44E-4	1.63E-3	1.20E-5	-3.06E-3	5.97E-3
POCP	kg NMVOC eq	2.17E-3	1.12E-4	1.41E-4	2.42E-3	6.96E-5	4.87E-4	4.08E-6	-1.05E-3	1.94E-3
ADP-mm	kg Sb eq	2.06E-5	4.43E-7	6.60E-7	2.18E-5	2.81E-7	2.38E-6	2.96E-9	-8.63E-6	1.58E-5
ADP-f	MJ	1.95E+1	2.64E-1	3.36E-1	2.01E+1	1.66E-1	1.66E+0	9.04E-3	-1.03E+1	1.17E+1
WDP	m3 depriv.	1.28E+0	9.43E-4	2.27E-1	1.51E+0	5.11E-4	6.51E-2	4.94E-5	-6.09E-1	9.64E-1
PM	disease inc.	2.49E-8	1.57E-9	2.45E-9	2.90E-8	9.79E-10	7.55E-9	6.20E-11	-1.06E-8	2.70E-8
IR	kBq U-235 eq	4.13E-2	1.10E-3	6.06E-4	4.30E-2	7.28E-4	5.81E-3	4.16E-5	-1.97E-2	2.99E-2
ETP-fw	CTUe	1.27E+1	2.35E-1	5.60E-1	1.35E+1	1.35E-1	1.26E+1	1.39E-1	-6.11E+0	2.03E+1
HTP-c	CTUh	5.17E-10	7.62E-12	1.91E-11	5.43E-10	4.81E-12	1.81E-10	2.36E-13	-2.26E-10	5.04E-10
HTP-nc	CTUh	1.65E-8	2.57E-10	5.84E-10	1.73E-8	1.61E-10	4.40E-9	2.66E-11	-7.80E-9	1.41E-8
SQP	Pt	7.47E+0	2.29E-1	2.51E-2	7.72E+0	1.42E-1	1.03E+0	2.30E-2	-2.18E+0	6.74E+0

Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.70E+0	3.30E-3	1.01E+0	2.71E+0	2.39E-3	1.19E-1	3.31E-4	-6.62E-1	2.17E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.70E+0	3.30E-3	1.01E+0	2.71E+0	2.39E-3	1.19E-1	3.31E-4	-6.62E-1	2.17E+0
PENRE	MJ	2.09E+1	2.80E-1	3.64E-1	2.16E+1	1.77E-1	1.76E+0	9.59E-3	-1.11E+1	1.25E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.09E+1	2.80E-1	3.64E-1	2.16E+1	1.77E-1	1.76E+0	9.59E-3	-1.11E+1	1.25E+1
PET	MJ	2.26E+1	2.83E-1	1.38E+0	2.43E+1	1.79E-1	1.88E+0	9.92E-3	-1.17E+1	1.47E+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	1.36E-2	3.21E-5	5.35E-3	1.90E-2	1.88E-5	1.78E-3	1.11E-5	-6.38E-3	1.44E-2
Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.56E-5	6.68E-7	4.70E-7	1.67E-5	4.26E-7	2.67E-6	1.09E-8	-8.48E-6	1.13E-5
NHWD	kg	7.39E-2	1.67E-2	6.78E-4	9.13E-2	1.03E-2	6.14E-2	4.12E-2	-3.28E-2	1.71E-1
RWD	kg	3.63E-5	1.73E-6	8.44E-7	3.89E-5	1.13E-6	6.22E-6	5.91E-8	-1.74E-5	2.89E-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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