

Environmental Profile

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

Ecochain v3.5.64



Product: 3071897 - PE100 Cab.prot. BK/RD 110x10 L=100 CL
Unit: 1 piece
Manufacturer: Wavin - DE - Westeregeln - verified
Address: Borrweg 10
39448 Börde-Hakel
Germany
Contact: <https://www.wavin.com/en-en>

LCA standard: EN15804+A2 (2019)
Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off
Externally verified: Yes
Issue date: 11-08-2022
End of validity: 11-08-2027
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 - DE - Westeregeln - 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	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	6.39E+2	1.22E+1	1.41E+1	6.65E+2	8.38E+0	2.72E+2	4.64E+0	-4.20E+2	5.30E+2
GWP-f	kg CO2 eq	6.35E+2	1.22E+1	1.14E+1	6.59E+2	8.37E+0	2.73E+2	4.64E+0	-4.18E+2	5.26E+2
GWP-b	kg CO2 eq	3.11E+0	5.62E-3	1.24E+0	4.36E+0	5.08E-3	-3.35E-1	3.48E-3	-1.59E+0	2.44E+0
GWP-luluc	kg CO2 eq	1.90E-1	4.46E-3	1.40E+0	1.59E+0	2.96E-3	4.70E-2	6.65E-5	-9.52E-2	1.55E+0
ODP	kg CFC11 eq	3.48E-5	2.69E-6	1.45E-6	3.89E-5	1.93E-6	6.12E-6	9.89E-8	-2.01E-5	2.70E-5
AP	mol H+ eq	2.37E+0	7.06E-2	6.87E-2	2.51E+0	4.77E-2	2.57E-1	2.36E-3	-1.16E+0	1.66E+0
EP-fw	kg P eq	1.05E-2	1.23E-4	2.62E-4	1.09E-2	6.89E-5	1.36E-3	3.07E-6	-5.21E-3	7.08E-3
EP-m	kg N eq	3.96E-1	2.49E-2	1.37E-2	4.35E-1	1.71E-2	7.48E-2	1.67E-3	-2.12E-1	3.17E-1
EP-T	mol N eq	4.42E+0	2.74E-1	1.39E-1	4.83E+0	1.88E-1	8.24E-1	9.58E-3	-2.36E+0	3.50E+0
POCP	kg NMVOC eq	2.12E+0	7.84E-2	4.00E-2	2.23E+0	5.37E-2	2.60E-1	3.76E-3	-1.10E+0	1.45E+0
ADP-mm	kg Sb eq	5.72E-3	3.09E-4	3.54E-4	6.38E-3	2.17E-4	1.02E-3	2.37E-6	-2.70E-3	4.91E-3
ADP-f	MJ	2.26E+4	1.84E+2	1.33E+2	2.29E+4	1.28E+2	8.16E+2	7.22E+0	-1.26E+4	1.13E+4
WDP	m3 depriv.	4.87E+2	6.57E-1	8.04E+1	5.68E+2	3.94E-1	1.60E+1	3.31E-2	-2.44E+2	3.41E+2
PM	disease inc.	2.26E-5	1.09E-6	5.95E-7	2.42E-5	7.56E-7	4.23E-6	4.96E-8	-9.16E-6	2.01E-5
IR	kBq U-235 eq	1.95E+1	7.70E-1	3.44E-1	2.06E+1	5.62E-1	2.46E+0	3.37E-2	-7.57E+0	1.61E+1
ETP-fw	CTUe	4.06E+3	1.64E+2	3.39E+2	4.56E+3	1.04E+2	9.26E+2	6.37E+0	-1.82E+3	3.78E+3
HTP-c	CTUh	1.66E-7	5.31E-9	1.26E-8	1.84E-7	3.71E-9	1.10E-7	1.75E-10	-8.67E-8	2.11E-7
HTP-nc	CTUh	3.95E-6	1.79E-7	3.29E-7	4.45E-6	1.24E-7	1.39E-6	4.05E-9	-1.94E-6	4.03E-6
SQP	Pt	8.58E+2	1.59E+2	1.22E+1	1.03E+3	1.10E+2	6.52E+2	1.85E+1	-3.98E+2	1.41E+3
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.64E+2	2.30E+0	7.53E+2	1.12E+3	1.84E+0	4.03E+1	2.86E-1	-1.82E+2	9.80E+2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.64E+2	2.30E+0	7.53E+2	1.12E+3	1.84E+0	4.03E+1	2.86E-1	-1.82E+2	9.80E+2
PENRE	MJ	2.42E+4	1.95E+2	1.42E+2	2.46E+4	1.36E+2	8.69E+2	7.66E+0	-1.35E+4	1.20E+4
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.42E+4	1.95E+2	1.42E+2	2.46E+4	1.36E+2	8.69E+2	7.66E+0	-1.35E+4	1.20E+4
PET	MJ	2.46E+4	1.97E+2	8.95E+2	2.57E+4	1.38E+2	9.09E+2	7.95E+0	-1.37E+4	1.30E+4
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	7.36E+0	2.24E-2	1.91E+0	9.30E+0	1.45E-2	4.71E-1	8.93E-3	-3.73E+0	6.06E+0

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	3.00E-3	4.65E-4	2.04E-4	3.67E-3	3.29E-4	1.33E-3	8.67E-6	-3.69E-3	1.65E-3
NHWD	kg	2.04E+1	1.17E+1	2.59E-1	3.24E+1	7.96E+0	4.01E+1	3.18E+1	-1.02E+1	1.02E+2
RWD	kg	2.13E-2	1.21E-3	4.88E-4	2.30E-2	8.74E-4	3.11E-3	4.72E-5	-7.03E-3	2.00E-2
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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