

Environmental Profile

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

Ecochain v3.5.80



Product: 3001660 - PVC Threaded Stopend BN 160
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



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]

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Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	1.40E+0	2.16E-2	1.45E-4	1.42E+0	1.80E-2	8.31E-1	5.94E-3	-7.97E-1	1.48E+0
GWP-f	kg CO2 eq	1.58E+0	2.16E-2	1.46E-4	1.61E+0	1.80E-2	6.03E-1	5.93E-3	-8.57E-1	1.38E+0
GWP-b	kg CO2 eq	-1.85E-1	1.31E-5	-1.54E-6	-1.85E-1	1.09E-5	2.28E-1	7.39E-6	6.11E-2	1.05E-1
GWP-luluc	kg CO2 eq	1.76E-3	7.63E-6	1.49E-7	1.77E-3	6.36E-6	2.23E-4	1.54E-7	-1.05E-3	9.54E-4
ODP	kg CFC11 eq	7.84E-7	4.97E-9	8.26E-12	7.89E-7	4.14E-9	6.19E-8	2.18E-10	-3.91E-7	4.64E-7
AP	mol H+ eq	7.55E-3	1.23E-4	1.47E-6	7.68E-3	1.02E-4	1.07E-3	5.30E-6	-3.38E-3	5.48E-3
EP-fw	kg P eq	7.28E-5	1.77E-7	8.24E-9	7.30E-5	1.48E-7	7.47E-6	6.96E-9	-3.49E-5	4.57E-5
EP-m	kg N eq	1.36E-3	4.40E-5	1.55E-7	1.41E-3	3.66E-5	2.64E-4	3.57E-6	-6.24E-4	1.09E-3
EP-T	mol N eq	1.48E-2	4.84E-4	1.85E-6	1.53E-2	4.04E-4	2.91E-3	2.11E-5	-6.76E-3	1.18E-2
POCP	kg NMVOC eq	4.92E-3	1.38E-4	6.28E-7	5.06E-3	1.15E-4	8.68E-4	7.29E-6	-2.27E-3	3.78E-3
ADP-mm	kg Sb eq	1.41E-3	5.58E-7	1.97E-8	1.42E-3	4.65E-7	4.17E-6	5.32E-9	-1.73E-5	1.40E-3
ADP-f	MJ	3.89E+1	3.31E-1	1.36E-3	3.93E+1	2.76E-1	2.85E+0	1.59E-2	-2.01E+1	2.23E+1
WDP	m3 depriv.	2.37E+0	1.02E-3	5.22E-5	2.38E+0	8.47E-4	1.13E-1	1.05E-4	-1.19E+0	1.30E+0
PM	disease inc.	5.69E-8	1.95E-9	9.08E-12	5.88E-8	1.62E-9	1.31E-8	1.09E-10	-2.81E-8	4.56E-8
IR	kBq U-235 eq	8.98E-2	1.45E-3	1.02E-6	9.12E-2	1.21E-3	1.01E-2	7.32E-5	-4.08E-2	6.18E-2
ETP-fw	CTUe	4.57E+1	2.69E-1	1.21E-2	4.59E+1	2.24E-1	2.20E+1	2.43E-1	-1.63E+1	5.21E+1
HTP-c	CTUh	1.30E-9	9.57E-12	6.17E-13	1.31E-9	7.98E-12	3.23E-10	4.41E-13	-5.12E-10	1.13E-9
HTP-nc	CTUh	4.02E-8	3.20E-10	1.57E-11	4.06E-8	2.67E-10	7.69E-9	4.69E-11	-1.57E-8	3.28E-8
SQP	Pt	2.45E+1	2.83E-1	2.24E-3	2.48E+1	2.36E-1	1.74E+0	4.07E-2	-2.79E+1	-1.03E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.84E+0	4.75E-3	2.40E-2	4.87E+0	3.96E-3	2.05E-1	5.98E-4	-5.05E+0	2.63E-2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	4.84E+0	4.75E-3	2.40E-2	4.87E+0	3.96E-3	2.05E-1	5.98E-4	-5.05E+0	2.63E-2
PENRE	MJ	4.17E+1	3.51E-1	1.44E-3	4.21E+1	2.93E-1	3.03E+0	1.69E-2	-2.17E+1	2.38E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	4.17E+1	3.51E-1	1.44E-3	4.21E+1	2.93E-1	3.03E+0	1.69E-2	-2.17E+1	2.38E+1
PET	MJ	4.66E+1	3.56E-1	2.55E-2	4.70E+1	2.97E-1	3.24E+0	1.75E-2	-2.67E+1	2.38E+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	2.80E-2	3.75E-5	1.46E-6	2.80E-2	3.12E-5	3.17E-3	1.95E-5	-1.41E-2	1.71E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.02E-4	8.47E-7	2.73E-13	2.03E-4	7.06E-7	4.72E-6	1.94E-8	-1.80E-5	1.91E-4
NHWD	kg	1.67E-1	2.05E-2	1.05E-6	1.87E-1	1.71E-2	1.06E-1	6.98E-2	-7.12E-2	3.09E-1
RWD	kg	8.26E-5	2.25E-6	1.10E-13	8.49E-5	1.88E-6	1.09E-5	1.03E-7	-3.68E-5	6.09E-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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