

Environmental Profile

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

Ecochain v3.5.64



Product: 3069960 - Tegra 600 PP Bend 150° DN250 SW DK
 Unit: 1 Piece
 Manufacturer: Wavin Poland Buk
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 Poland
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LCA standard: EN15804+A2 (2019)
 Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off
 Externally verified: Yes
 Issue date: 19-09-2022
 End of validity: 19-09-2027
 Verifier: Martijn van Hövell - SGS Search



This LCA was evaluated according to EN15804+A2. It was concluded that the LCA complies with this standard.

Plastic inspection chamber made of polypropylene according to DIN EN 13598-2.

The LCA background information and project dossier have been registered in the online Ecochain application in the account Wavin Poland Buk (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 Climate Change [kg CO2 eq]; **GWP-f** = EF Climate change - Fossil [kg CO2 eq]; **GWP-b** = EF Climate Change - Biogenic [kg CO2 eq]; **GWP-luluc** = EF 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	3.65E+1	1.43E+0	1.83E+0	3.98E+1	7.08E-1	5.37E+1	3.45E-1	-3.62E+1	5.83E+1
GWP-f	kg CO2 eq	6.35E+1	1.43E+0	1.73E+0	6.67E+1	7.07E-1	2.67E+1	3.46E-1	-3.61E+1	5.82E+1
GWP-b	kg CO2 eq	-2.70E+1	6.60E-4	9.74E-2	-2.69E+1	4.29E-4	2.71E+1	3.04E-4	-1.09E-1	7.81E-2
GWP-luluc	kg CO2 eq	3.49E-2	5.24E-4	6.07E-4	3.60E-2	2.50E-4	3.90E-3	5.98E-6	-1.48E-2	2.53E-2
ODP	kg CFC11 eq	3.19E-6	3.16E-7	2.20E-7	3.73E-6	1.63E-7	5.35E-7	8.73E-9	-1.98E-6	2.46E-6
AP	mol H+ eq	2.57E-1	8.30E-3	6.81E-3	2.73E-1	4.03E-3	2.35E-2	2.09E-4	-1.09E-1	1.91E-1
EP-fw	kg P eq	1.23E-3	1.44E-5	3.31E-5	1.27E-3	5.82E-6	1.14E-4	2.74E-7	-4.73E-4	9.21E-4
EP-m	kg N eq	4.53E-2	2.92E-3	1.03E-3	4.93E-2	1.44E-3	7.16E-3	1.59E-4	-2.14E-2	3.66E-2
EP-T	mol N eq	5.19E-1	3.22E-2	1.13E-2	5.62E-1	1.59E-2	7.90E-2	8.47E-4	-2.48E-1	4.10E-1
POCP	kg NMVOC eq	2.23E-1	9.20E-3	3.80E-3	2.36E-1	4.54E-3	2.43E-2	3.17E-4	-1.01E-1	1.64E-1
ADP-mm	kg Sb eq	3.41E-3	3.62E-5	6.54E-5	3.51E-3	1.83E-5	8.60E-5	2.10E-7	-3.33E-4	3.28E-3
ADP-f	MJ	2.11E+3	2.16E+1	2.18E+1	2.15E+3	1.09E+1	6.90E+1	6.38E-1	-1.07E+3	1.16E+3
WDP	m3 depriv.	4.26E+1	7.72E-2	2.11E-1	4.29E+1	3.33E-2	1.39E+0	3.32E-3	-1.83E+1	2.60E+1
PM	disease inc.	3.10E-6	1.28E-7	5.03E-8	3.28E-6	6.38E-8	3.66E-7	4.38E-9	-1.10E-6	2.61E-6
IR	kBq U-235 eq	1.79E+0	9.04E-2	3.44E-2	1.92E+0	4.74E-2	2.10E-1	2.97E-3	-6.08E-1	1.57E+0
ETP-fw	CTUe	5.71E+2	1.92E+1	4.61E+1	6.36E+2	8.81E+0	8.73E+1	6.04E-1	-2.42E+2	4.91E+2
HTP-c	CTUh	2.80E-8	6.24E-10	2.30E-9	3.09E-8	3.14E-10	1.03E-8	1.58E-11	-1.13E-8	3.02E-8
HTP-nc	CTUh	5.53E-7	2.10E-8	5.52E-8	6.30E-7	1.05E-8	1.21E-7	3.61E-10	-2.24E-7	5.38E-7
SQP	Pt	2.48E+3	1.87E+1	8.97E+0	2.50E+3	9.29E+0	5.46E+1	1.63E+0	-1.23E+3	1.33E+3
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.30E+2	2.70E-1	7.75E+1	5.08E+2	1.56E-1	3.37E+0	2.50E-2	-2.07E+2	3.04E+2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	4.30E+2	2.70E-1	7.75E+1	5.08E+2	1.56E-1	3.37E+0	2.50E-2	-2.07E+2	3.04E+2
PENRE	MJ	2.26E+3	2.29E+1	2.37E+1	2.30E+3	1.15E+1	7.35E+1	6.77E-1	-1.15E+3	1.24E+3
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.26E+3	2.29E+1	2.37E+1	2.30E+3	1.15E+1	7.35E+1	6.77E-1	-1.15E+3	1.24E+3
PET	MJ	2.69E+3	2.32E+1	1.01E+2	2.81E+3	1.17E+1	7.69E+1	7.02E-1	-1.36E+3	1.54E+3
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	7.16E-1	2.63E-3	6.03E-3	7.25E-1	1.23E-3	4.87E-2	7.86E-4	-2.82E-1	4.93E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	5.27E-4	5.47E-5	2.66E-5	6.09E-4	2.78E-5	1.17E-4	7.69E-7	-3.74E-4	3.80E-4
NHWD	kg	3.96E+0	1.37E+0	6.91E-2	5.40E+0	6.73E-1	3.72E+0	2.81E+0	-1.45E+0	1.11E+1
RWD	kg	1.90E-3	1.42E-4	4.89E-5	2.09E-3	7.38E-5	2.67E-4	4.17E-6	-5.91E-4	1.85E-3
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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