

Environmental Profile

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

Ecochain v3.5.64



Product: 3069969 - Tegra 600 PP Cross 90° 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	4.44E+1	1.61E+0	2.04E+0	4.80E+1	7.91E-1	5.74E+1	3.87E-1	-4.05E+1	6.61E+1
GWP-f	kg CO2 eq	7.13E+1	1.61E+0	1.92E+0	7.49E+1	7.90E-1	3.03E+1	3.87E-1	-4.04E+1	6.60E+1
GWP-b	kg CO2 eq	-2.70E+1	7.44E-4	1.14E-1	-2.68E+1	4.80E-4	2.71E+1	3.41E-4	-1.21E-1	9.37E-2
GWP-luluc	kg CO2 eq	3.79E-2	5.90E-4	6.08E-4	3.91E-2	2.80E-4	4.35E-3	6.71E-6	-1.56E-2	2.81E-2
ODP	kg CFC11 eq	3.66E-6	3.56E-7	2.51E-7	4.27E-6	1.82E-7	5.95E-7	9.78E-9	-2.22E-6	2.84E-6
AP	mol H+ eq	2.89E-1	9.34E-3	6.94E-3	3.06E-1	4.50E-3	2.61E-2	2.34E-4	-1.20E-1	2.16E-1
EP-fw	kg P eq	1.38E-3	1.63E-5	3.31E-5	1.43E-3	6.50E-6	1.27E-4	3.07E-7	-5.17E-4	1.04E-3
EP-m	kg N eq	5.05E-2	3.29E-3	1.10E-3	5.49E-2	1.61E-3	7.94E-3	1.79E-4	-2.34E-2	4.12E-2
EP-T	mol N eq	5.77E-1	3.63E-2	1.19E-2	6.26E-1	1.78E-2	8.76E-2	9.49E-4	-2.70E-1	4.62E-1
POCP	kg NMVOC eq	2.50E-1	1.04E-2	4.00E-3	2.64E-1	5.07E-3	2.70E-2	3.55E-4	-1.11E-1	1.85E-1
ADP-mm	kg Sb eq	3.97E-3	4.08E-5	6.31E-5	4.07E-3	2.04E-5	9.58E-5	2.36E-7	-3.73E-4	3.81E-3
ADP-f	MJ	2.36E+3	2.43E+1	2.45E+1	2.41E+3	1.21E+1	7.68E+1	7.14E-1	-1.19E+3	1.31E+3
WDP	m3 depriv.	4.79E+1	8.69E-2	2.11E-1	4.82E+1	3.72E-2	1.56E+0	3.75E-3	-2.04E+1	2.94E+1
PM	disease inc.	3.39E-6	1.45E-7	5.25E-8	3.59E-6	7.13E-8	4.07E-7	4.91E-9	-1.19E-6	2.88E-6
IR	kBq U-235 eq	2.02E+0	1.02E-1	3.94E-2	2.16E+0	5.30E-2	2.34E-1	3.32E-3	-6.70E-1	1.78E+0
ETP-fw	CTUe	6.50E+2	2.17E+1	4.57E+1	7.17E+2	9.85E+0	9.79E+1	6.80E-1	-2.58E+2	5.67E+2
HTP-c	CTUh	3.10E-8	7.03E-10	2.26E-9	3.39E-8	3.51E-10	1.14E-8	1.77E-11	-1.20E-8	3.37E-8
HTP-nc	CTUh	6.31E-7	2.37E-8	5.39E-8	7.08E-7	1.17E-8	1.35E-7	4.06E-10	-2.43E-7	6.13E-7
SQP	Pt	2.49E+3	2.11E+1	8.96E+0	2.52E+3	1.04E+1	6.08E+1	1.83E+0	-1.24E+3	1.36E+3
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.65E+2	3.04E-1	7.42E+1	5.40E+2	1.74E-1	3.76E+0	2.80E-2	-2.09E+2	3.35E+2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	4.65E+2	3.04E-1	7.42E+1	5.40E+2	1.74E-1	3.76E+0	2.80E-2	-2.09E+2	3.35E+2
PENRE	MJ	2.53E+3	2.58E+1	2.66E+1	2.59E+3	1.29E+1	8.19E+1	7.58E-1	-1.29E+3	1.39E+3
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.53E+3	2.58E+1	2.66E+1	2.59E+3	1.29E+1	8.19E+1	7.58E-1	-1.29E+3	1.39E+3
PET	MJ	3.00E+3	2.61E+1	1.01E+2	3.12E+3	1.31E+1	8.56E+1	7.86E-1	-1.49E+3	1.73E+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	8.09E-1	2.96E-3	6.05E-3	8.18E-1	1.37E-3	5.46E-2	8.81E-4	-3.14E-1	5.61E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	5.80E-4	6.16E-5	3.09E-5	6.72E-4	3.10E-5	1.31E-4	8.62E-7	-4.14E-4	4.21E-4
NHWD	kg	4.35E+0	1.54E+0	7.97E-2	5.98E+0	7.52E-1	4.13E+0	3.14E+0	-1.55E+0	1.25E+1
RWD	kg	2.15E-3	1.60E-4	5.70E-5	2.36E-3	8.25E-5	2.97E-4	4.67E-6	-6.49E-4	2.10E-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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