

Environmental Profile

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

Ecochain v3.5.64



Product: 3069952 - Tegra 600 PP Straight DN200 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	2.86E+1	1.23E+0	1.62E+0	3.15E+1	6.13E-1	5.04E+1	3.00E-1	-3.17E+1	5.11E+1
GWP-f	kg CO2 eq	5.56E+1	1.23E+0	1.54E+0	5.84E+1	6.12E-1	2.33E+1	3.00E-1	-3.16E+1	5.11E+1
GWP-b	kg CO2 eq	-2.70E+1	5.69E-4	8.54E-2	-2.69E+1	3.72E-4	2.71E+1	2.64E-4	-9.35E-2	6.00E-2
GWP-luluc	kg CO2 eq	3.24E-2	4.52E-4	5.46E-4	3.34E-2	2.17E-4	3.38E-3	5.20E-6	-1.39E-2	2.31E-2
ODP	kg CFC11 eq	2.91E-6	2.72E-7	1.94E-7	3.38E-6	1.41E-7	4.66E-7	7.58E-9	-1.76E-6	2.24E-6
AP	mol H+ eq	2.28E-1	7.15E-3	6.10E-3	2.41E-1	3.49E-3	2.06E-2	1.82E-4	-9.71E-2	1.68E-1
EP-fw	kg P eq	1.10E-3	1.24E-5	2.98E-5	1.14E-3	5.04E-6	9.86E-5	2.38E-7	-4.23E-4	8.19E-4
EP-m	kg N eq	4.05E-2	2.52E-3	9.19E-4	4.39E-2	1.25E-3	6.30E-3	1.39E-4	-1.92E-2	3.24E-2
EP-T	mol N eq	4.64E-1	2.78E-2	1.01E-2	5.02E-1	1.38E-2	6.95E-2	7.36E-4	-2.24E-1	3.62E-1
POCP	kg NMVOC eq	1.98E-1	7.94E-3	3.39E-3	2.10E-1	3.93E-3	2.13E-2	2.75E-4	-9.02E-2	1.45E-1
ADP-mm	kg Sb eq	3.10E-3	3.13E-5	5.91E-5	3.19E-3	1.58E-5	7.47E-5	1.83E-7	-2.97E-4	2.99E-3
ADP-f	MJ	1.84E+3	1.86E+1	1.93E+1	1.87E+3	9.40E+0	5.99E+1	5.54E-1	-9.28E+2	1.01E+3
WDP	m3 depriv.	3.71E+1	6.65E-2	1.90E-1	3.74E+1	2.89E-2	1.21E+0	2.88E-3	-1.59E+1	2.28E+1
PM	disease inc.	2.83E-6	1.11E-7	4.50E-8	2.99E-6	5.53E-8	3.18E-7	3.81E-9	-1.00E-6	2.37E-6
IR	kBq U-235 eq	1.61E+0	7.79E-2	3.03E-2	1.72E+0	4.11E-2	1.83E-1	2.58E-3	-5.40E-1	1.41E+0
ETP-fw	CTUe	5.13E+2	1.66E+1	4.15E+1	5.71E+2	7.63E+0	7.63E+1	5.29E-1	-2.24E+2	4.31E+2
HTP-c	CTUh	2.57E-8	5.38E-10	2.07E-9	2.83E-8	2.72E-10	9.07E-9	1.37E-11	-1.06E-8	2.71E-8
HTP-nc	CTUh	4.91E-7	1.81E-8	4.98E-8	5.59E-7	9.10E-9	1.05E-7	3.15E-10	-2.02E-7	4.72E-7
SQP	Pt	2.46E+3	1.61E+1	8.07E+0	2.49E+3	8.04E+0	4.74E+1	1.42E+0	-1.23E+3	1.31E+3
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.12E+2	2.33E-1	7.01E+1	4.83E+2	1.35E-1	2.93E+0	2.18E-2	-2.05E+2	2.80E+2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	4.12E+2	2.33E-1	7.01E+1	4.83E+2	1.35E-1	2.93E+0	2.18E-2	-2.05E+2	2.80E+2
PENRE	MJ	1.97E+3	1.98E+1	2.10E+1	2.01E+3	9.98E+0	6.38E+1	5.88E-1	-1.00E+3	1.08E+3
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.97E+3	1.98E+1	2.10E+1	2.01E+3	9.98E+0	6.38E+1	5.88E-1	-1.00E+3	1.08E+3
PET	MJ	2.38E+3	2.00E+1	9.11E+1	2.49E+3	1.01E+1	6.67E+1	6.10E-1	-1.21E+3	1.36E+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	6.29E-1	2.27E-3	5.42E-3	6.37E-1	1.06E-3	4.28E-2	6.83E-4	-2.46E-1	4.35E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	4.87E-4	4.71E-5	2.33E-5	5.57E-4	2.40E-5	1.02E-4	6.68E-7	-3.36E-4	3.48E-4
NHWD	kg	3.62E+0	1.18E+0	6.08E-2	4.86E+0	5.83E-1	3.26E+0	2.44E+0	-1.34E+0	9.80E+0
RWD	kg	1.72E-3	1.22E-4	4.30E-5	1.89E-3	6.39E-5	2.32E-4	3.62E-6	-5.29E-4	1.66E-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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