

Environmental Profile

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

Ecochain v3.5.64



Product: 3069986 - Tegra 600 PP Straight DN250 UR-ID 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 non-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	3.39E+1	1.38E+0	1.85E+0	3.72E+1	6.83E-1	5.25E+1	3.33E-1	-3.50E+1	5.56E+1
GWP-f	kg CO2 eq	6.09E+1	1.38E+0	1.75E+0	6.40E+1	6.83E-1	2.54E+1	3.33E-1	-3.49E+1	5.56E+1
GWP-b	kg CO2 eq	-2.70E+1	6.38E-4	9.92E-2	-2.69E+1	4.15E-4	2.71E+1	2.93E-4	-1.05E-1	7.68E-2
GWP-luluc	kg CO2 eq	3.37E-2	5.06E-4	6.05E-4	3.49E-2	2.42E-4	3.78E-3	5.76E-6	-1.46E-2	2.43E-2
ODP	kg CFC11 eq	2.96E-6	3.05E-7	2.24E-7	3.49E-6	1.57E-7	5.18E-7	8.40E-9	-1.90E-6	2.27E-6
AP	mol H+ eq	2.46E-1	8.01E-3	6.80E-3	2.61E-1	3.89E-3	2.28E-2	2.01E-4	-1.06E-1	1.81E-1
EP-fw	kg P eq	1.17E-3	1.39E-5	3.30E-5	1.22E-3	5.62E-6	1.10E-4	2.64E-7	-4.60E-4	8.73E-4
EP-m	kg N eq	4.35E-2	2.82E-3	1.04E-3	4.74E-2	1.39E-3	6.93E-3	1.51E-4	-2.09E-2	3.50E-2
EP-T	mol N eq	4.99E-1	3.11E-2	1.14E-2	5.41E-1	1.53E-2	7.65E-2	8.15E-4	-2.42E-1	3.92E-1
POCP	kg NMVOC eq	2.15E-1	8.88E-3	3.81E-3	2.27E-1	4.38E-3	2.35E-2	3.05E-4	-9.86E-2	1.57E-1
ADP-mm	kg Sb eq	3.11E-3	3.50E-5	6.49E-5	3.21E-3	1.77E-5	8.33E-5	2.03E-7	-3.18E-4	3.00E-3
ADP-f	MJ	2.03E+3	2.08E+1	2.21E+1	2.07E+3	1.05E+1	6.68E+1	6.14E-1	-1.03E+3	1.11E+3
WDP	m3 depriv.	4.10E+1	7.45E-2	2.10E-1	4.12E+1	3.22E-2	1.34E+0	3.20E-3	-1.77E+1	2.49E+1
PM	disease inc.	2.99E-6	1.24E-7	5.04E-8	3.17E-6	6.16E-8	3.54E-7	4.22E-9	-1.08E-6	2.51E-6
IR	kBq U-235 eq	1.70E+0	8.73E-2	3.49E-2	1.82E+0	4.58E-2	2.04E-1	2.85E-3	-5.90E-1	1.49E+0
ETP-fw	CTUe	5.33E+2	1.86E+1	4.59E+1	5.98E+2	8.51E+0	8.39E+1	5.77E-1	-2.37E+2	4.54E+2
HTP-c	CTUh	2.66E-8	6.02E-10	2.28E-9	2.94E-8	3.03E-10	1.00E-8	1.52E-11	-1.11E-8	2.87E-8
HTP-nc	CTUh	5.17E-7	2.03E-8	5.48E-8	5.92E-7	1.01E-8	1.17E-7	3.47E-10	-2.18E-7	5.01E-7
SQP	Pt	2.47E+3	1.81E+1	8.94E+0	2.49E+3	8.97E+0	5.29E+1	1.57E+0	-1.23E+3	1.32E+3
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.02E+2	2.61E-1	7.68E+1	4.79E+2	1.50E-1	3.27E+0	2.41E-2	-2.07E+2	2.76E+2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	4.02E+2	2.61E-1	7.68E+1	4.79E+2	1.50E-1	3.27E+0	2.41E-2	-2.07E+2	2.76E+2
PENRE	MJ	2.17E+3	2.21E+1	2.40E+1	2.22E+3	1.11E+1	7.12E+1	6.51E-1	-1.11E+3	1.19E+3
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.17E+3	2.21E+1	2.40E+1	2.22E+3	1.11E+1	7.12E+1	6.51E-1	-1.11E+3	1.19E+3
PET	MJ	2.57E+3	2.24E+1	1.01E+2	2.70E+3	1.13E+1	7.44E+1	6.75E-1	-1.32E+3	1.46E+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	6.87E-1	2.54E-3	6.01E-3	6.95E-1	1.19E-3	4.66E-2	7.57E-4	-2.74E-1	4.70E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	5.07E-4	5.28E-5	2.70E-5	5.87E-4	2.68E-5	1.13E-4	7.40E-7	-3.61E-4	3.67E-4
NHWD	kg	3.84E+0	1.32E+0	7.02E-2	5.23E+0	6.50E-1	3.60E+0	2.70E+0	-1.42E+0	1.08E+1
RWD	kg	1.79E-3	1.37E-4	4.98E-5	1.98E-3	7.13E-5	2.59E-4	4.01E-6	-5.73E-4	1.74E-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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