

Environmental Profile

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

Ecochain v3.5.64



Product: 3069972 - Tegra 600 PP T 90° DN315 SW DK
 Unit: 1 Piece
 Manufacturer: Wavin Poland Buk
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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	4.98E+1	1.74E+0	2.16E+0	5.37E+1	8.57E-1	5.96E+1	4.18E-1	-4.36E+1	7.09E+1
GWP-f	kg CO2 eq	7.67E+1	1.74E+0	2.04E+0	8.05E+1	8.56E-1	3.25E+1	4.18E-1	-4.35E+1	7.08E+1
GWP-b	kg CO2 eq	-2.69E+1	8.03E-4	1.21E-1	-2.68E+1	5.20E-4	2.71E+1	3.68E-4	-1.32E-1	1.08E-1
GWP-luluc	kg CO2 eq	3.95E-2	6.37E-4	6.44E-4	4.07E-2	3.03E-4	4.72E-3	7.25E-6	-1.62E-2	2.96E-2
ODP	kg CFC11 eq	3.83E-6	3.84E-7	2.66E-7	4.48E-6	1.97E-7	6.43E-7	1.06E-8	-2.36E-6	2.97E-6
AP	mol H+ eq	3.09E-1	1.01E-2	7.36E-3	3.27E-1	4.88E-3	2.82E-2	2.53E-4	-1.29E-1	2.31E-1
EP-fw	kg P eq	1.46E-3	1.75E-5	3.51E-5	1.52E-3	7.05E-6	1.37E-4	3.32E-7	-5.51E-4	1.11E-3
EP-m	kg N eq	5.37E-2	3.55E-3	1.16E-3	5.85E-2	1.75E-3	8.53E-3	1.92E-4	-2.49E-2	4.40E-2
EP-T	mol N eq	6.14E-1	3.92E-2	1.27E-2	6.66E-1	1.92E-2	9.42E-2	1.03E-3	-2.87E-1	4.94E-1
POCP	kg NMVOC eq	2.67E-1	1.12E-2	4.25E-3	2.82E-1	5.50E-3	2.90E-2	3.84E-4	-1.19E-1	1.98E-1
ADP-mm	kg Sb eq	4.15E-3	4.41E-5	6.69E-5	4.26E-3	2.22E-5	1.04E-4	2.55E-7	-3.97E-4	3.99E-3
ADP-f	MJ	2.55E+3	2.62E+1	2.60E+1	2.60E+3	1.31E+1	8.32E+1	7.73E-1	-1.29E+3	1.41E+3
WDP	m3 depriv.	5.16E+1	9.38E-2	2.24E-1	5.19E+1	4.03E-2	1.68E+0	4.04E-3	-2.21E+1	3.16E+1
PM	disease inc.	3.57E-6	1.56E-7	5.57E-8	3.78E-6	7.73E-8	4.40E-7	5.31E-9	-1.26E-6	3.05E-6
IR	kBq U-235 eq	2.14E+0	1.10E-1	4.17E-2	2.29E+0	5.75E-2	2.53E-1	3.59E-3	-7.17E-1	1.88E+0
ETP-fw	CTUe	6.88E+2	2.34E+1	4.84E+1	7.59E+2	1.07E+1	1.05E+2	7.32E-1	-2.71E+2	6.06E+2
HTP-c	CTUh	3.25E-8	7.59E-10	2.40E-9	3.56E-8	3.80E-10	1.23E-8	1.91E-11	-1.25E-8	3.58E-8
HTP-nc	CTUh	6.73E-7	2.56E-8	5.71E-8	7.56E-7	1.27E-8	1.46E-7	4.38E-10	-2.58E-7	6.57E-7
SQP	Pt	2.50E+3	2.28E+1	9.50E+0	2.54E+3	1.12E+1	6.59E+1	1.98E+0	-1.24E+3	1.37E+3
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.79E+2	3.28E-1	7.87E+1	5.58E+2	1.89E-1	4.07E+0	3.03E-2	-2.10E+2	3.52E+2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	4.79E+2	3.28E-1	7.87E+1	5.58E+2	1.89E-1	4.07E+0	3.03E-2	-2.10E+2	3.52E+2
PENRE	MJ	2.73E+3	2.78E+1	2.82E+1	2.79E+3	1.40E+1	8.86E+1	8.20E-1	-1.39E+3	1.50E+3
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.73E+3	2.78E+1	2.82E+1	2.79E+3	1.40E+1	8.86E+1	8.20E-1	-1.39E+3	1.50E+3
PET	MJ	3.21E+3	2.82E+1	1.07E+2	3.35E+3	1.41E+1	9.27E+1	8.50E-1	-1.60E+3	1.85E+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	8.67E-1	3.19E-3	6.42E-3	8.76E-1	1.49E-3	5.86E-2	9.52E-4	-3.39E-1	5.98E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	6.06E-4	6.65E-5	3.28E-5	7.05E-4	3.36E-5	1.41E-4	9.32E-7	-4.39E-4	4.42E-4
NHWD	kg	4.57E+0	1.66E+0	8.45E-2	6.32E+0	8.15E-1	4.45E+0	3.40E+0	-1.62E+0	1.34E+1
RWD	kg	2.26E-3	1.72E-4	6.04E-5	2.49E-3	8.94E-5	3.21E-4	5.05E-6	-6.92E-4	2.22E-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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