

Environmental Profile

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

Ecochain v3.5.64



Product: 3069985 - Tegra 600 PP Cross 90° DN200 UR-ID XS 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	3.32E+1	1.35E+0	1.79E+0	3.63E+1	6.67E-1	5.22E+1	3.26E-1	-3.43E+1	5.52E+1
GWP-f	kg CO2 eq	6.01E+1	1.35E+0	1.70E+0	6.32E+1	6.67E-1	2.51E+1	3.26E-1	-3.42E+1	5.51E+1
GWP-b	kg CO2 eq	-2.70E+1	6.24E-4	9.70E-2	-2.69E+1	4.05E-4	2.71E+1	2.87E-4	-1.02E-1	8.05E-2
GWP-luluc	kg CO2 eq	3.38E-2	4.95E-4	5.76E-4	3.49E-2	2.36E-4	3.68E-3	5.65E-6	-1.45E-2	2.43E-2
ODP	kg CFC11 eq	3.07E-6	2.98E-7	2.18E-7	3.58E-6	1.54E-7	5.06E-7	8.23E-9	-1.89E-6	2.36E-6
AP	mol H+ eq	2.45E-1	7.83E-3	6.49E-3	2.59E-1	3.80E-3	2.23E-2	1.97E-4	-1.04E-1	1.81E-1
EP-fw	kg P eq	1.17E-3	1.36E-5	3.14E-5	1.22E-3	5.49E-6	1.07E-4	2.58E-7	-4.52E-4	8.76E-4
EP-m	kg N eq	4.32E-2	2.76E-3	9.96E-4	4.70E-2	1.36E-3	6.79E-3	1.50E-4	-2.05E-2	3.48E-2
EP-T	mol N eq	4.96E-1	3.04E-2	1.09E-2	5.37E-1	1.50E-2	7.50E-2	7.99E-4	-2.38E-1	3.90E-1
POCP	kg NMVOC eq	2.13E-1	8.69E-3	3.66E-3	2.25E-1	4.28E-3	2.30E-2	2.99E-4	-9.67E-2	1.56E-1
ADP-mm	kg Sb eq	3.23E-3	3.42E-5	6.14E-5	3.33E-3	1.73E-5	8.13E-5	1.99E-7	-3.17E-4	3.11E-3
ADP-f	MJ	1.99E+3	2.04E+1	2.14E+1	2.03E+3	1.02E+1	6.51E+1	6.02E-1	-1.01E+3	1.10E+3
WDP	m3 depriv.	4.03E+1	7.29E-2	2.00E-1	4.05E+1	3.14E-2	1.31E+0	3.15E-3	-1.73E+1	2.46E+1
PM	disease inc.	2.98E-6	1.21E-7	4.83E-8	3.15E-6	6.02E-8	3.46E-7	4.13E-9	-1.06E-6	2.50E-6
IR	kBq U-235 eq	1.71E+0	8.53E-2	3.40E-2	1.83E+0	4.47E-2	1.99E-1	2.80E-3	-5.80E-1	1.49E+0
ETP-fw	CTUe	5.46E+2	1.82E+1	4.36E+1	6.08E+2	8.31E+0	8.25E+1	5.70E-1	-2.34E+2	4.65E+2
HTP-c	CTUh	2.71E-8	5.89E-10	2.17E-9	2.99E-8	2.96E-10	9.81E-9	1.49E-11	-1.10E-8	2.90E-8
HTP-nc	CTUh	5.29E-7	1.99E-8	5.20E-8	6.01E-7	9.91E-9	1.14E-7	3.41E-10	-2.15E-7	5.11E-7
SQP	Pt	2.47E+3	1.77E+1	8.51E+0	2.50E+3	8.76E+0	5.16E+1	1.54E+0	-1.23E+3	1.33E+3
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.26E+2	2.55E-1	7.26E+1	4.99E+2	1.47E-1	3.19E+0	2.36E-2	-2.06E+2	2.96E+2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	4.26E+2	2.55E-1	7.26E+1	4.99E+2	1.47E-1	3.19E+0	2.36E-2	-2.06E+2	2.96E+2
PENRE	MJ	2.13E+3	2.16E+1	2.33E+1	2.18E+3	1.09E+1	6.94E+1	6.38E-1	-1.09E+3	1.17E+3
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.13E+3	2.16E+1	2.33E+1	2.18E+3	1.09E+1	6.94E+1	6.38E-1	-1.09E+3	1.17E+3
PET	MJ	2.56E+3	2.19E+1	9.59E+1	2.68E+3	1.10E+1	7.26E+1	6.62E-1	-1.29E+3	1.47E+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	6.80E-1	2.48E-3	5.73E-3	6.88E-1	1.16E-3	4.60E-2	7.42E-4	-2.67E-1	4.68E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	5.10E-4	5.16E-5	2.64E-5	5.88E-4	2.62E-5	1.11E-4	7.25E-7	-3.57E-4	3.69E-4
NHWD	kg	3.82E+0	1.29E+0	6.84E-2	5.18E+0	6.34E-1	3.52E+0	2.65E+0	-1.40E+0	1.06E+1
RWD	kg	1.81E-3	1.34E-4	4.86E-5	1.99E-3	6.96E-5	2.52E-4	3.93E-6	-5.64E-4	1.76E-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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