

Environmental Profile

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

Ecochain v3.5.64



Product: 3069963 - Tegra 600 PP Bend 120° 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	2.90E+1	1.25E+0	1.63E+0	3.19E+1	6.18E-1	5.06E+1	3.02E-1	-3.19E+1	5.15E+1
GWP-f	kg CO2 eq	5.60E+1	1.24E+0	1.55E+0	5.88E+1	6.18E-1	2.35E+1	3.02E-1	-3.18E+1	5.14E+1
GWP-b	kg CO2 eq	-2.70E+1	5.74E-4	8.57E-2	-2.69E+1	3.75E-4	2.71E+1	2.67E-4	-9.44E-2	6.11E-2
GWP-luluc	kg CO2 eq	3.25E-2	4.56E-4	5.52E-4	3.35E-2	2.19E-4	3.41E-3	5.24E-6	-1.40E-2	2.32E-2
ODP	kg CFC11 eq	2.92E-6	2.75E-7	1.95E-7	3.39E-6	1.42E-7	4.70E-7	7.64E-9	-1.77E-6	2.25E-6
AP	mol H+ eq	2.29E-1	7.22E-3	6.16E-3	2.43E-1	3.52E-3	2.08E-2	1.83E-4	-9.78E-2	1.69E-1
EP-fw	kg P eq	1.10E-3	1.26E-5	3.01E-5	1.14E-3	5.08E-6	9.94E-5	2.40E-7	-4.26E-4	8.23E-4
EP-m	kg N eq	4.07E-2	2.54E-3	9.26E-4	4.42E-2	1.26E-3	6.34E-3	1.40E-4	-1.93E-2	3.26E-2
EP-T	mol N eq	4.67E-1	2.80E-2	1.02E-2	5.05E-1	1.39E-2	7.00E-2	7.42E-4	-2.25E-1	3.64E-1
POCP	kg NMVOC eq	2.00E-1	8.00E-3	3.42E-3	2.11E-1	3.97E-3	2.15E-2	2.78E-4	-9.08E-2	1.46E-1
ADP-mm	kg Sb eq	3.11E-3	3.15E-5	5.98E-5	3.20E-3	1.60E-5	7.53E-5	1.84E-7	-2.99E-4	2.99E-3
ADP-f	MJ	1.85E+3	1.88E+1	1.94E+1	1.89E+3	9.48E+0	6.04E+1	5.59E-1	-9.36E+2	1.02E+3
WDP	m3 depriv.	3.74E+1	6.71E-2	1.92E-1	3.77E+1	2.91E-2	1.22E+0	2.91E-3	-1.60E+1	2.29E+1
PM	disease inc.	2.85E-6	1.12E-7	4.54E-8	3.00E-6	5.58E-8	3.21E-7	3.84E-9	-1.01E-6	2.38E-6
IR	kBq U-235 eq	1.62E+0	7.86E-2	3.05E-2	1.73E+0	4.14E-2	1.84E-1	2.60E-3	-5.44E-1	1.42E+0
ETP-fw	CTUe	5.15E+2	1.67E+1	4.20E+1	5.73E+2	7.70E+0	7.69E+1	5.32E-1	-2.25E+2	4.34E+2
HTP-c	CTUh	2.58E-8	5.43E-10	2.09E-9	2.84E-8	2.74E-10	9.14E-9	1.38E-11	-1.06E-8	2.72E-8
HTP-nc	CTUh	4.94E-7	1.83E-8	5.04E-8	5.63E-7	9.18E-9	1.06E-7	3.17E-10	-2.03E-7	4.75E-7
SQP	Pt	2.46E+3	1.63E+1	8.16E+0	2.49E+3	8.11E+0	4.78E+1	1.43E+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	2.35E-1	7.09E+1	4.84E+2	1.36E-1	2.95E+0	2.19E-2	-2.05E+2	2.81E+2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	4.12E+2	2.35E-1	7.09E+1	4.84E+2	1.36E-1	2.95E+0	2.19E-2	-2.05E+2	2.81E+2
PENRE	MJ	1.98E+3	1.99E+1	2.11E+1	2.02E+3	1.01E+1	6.43E+1	5.93E-1	-1.01E+3	1.09E+3
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.98E+3	1.99E+1	2.11E+1	2.02E+3	1.01E+1	6.43E+1	5.93E-1	-1.01E+3	1.09E+3
PET	MJ	2.40E+3	2.02E+1	9.20E+1	2.51E+3	1.02E+1	6.73E+1	6.15E-1	-1.21E+3	1.37E+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	6.34E-1	2.29E-3	5.48E-3	6.41E-1	1.07E-3	4.31E-2	6.89E-4	-2.49E-1	4.38E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	4.88E-4	4.76E-5	2.34E-5	5.59E-4	2.43E-5	1.03E-4	6.73E-7	-3.38E-4	3.49E-4
NHWD	kg	3.64E+0	1.19E+0	6.11E-2	4.89E+0	5.88E-1	3.28E+0	2.46E+0	-1.35E+0	9.87E+0
RWD	kg	1.73E-3	1.23E-4	4.32E-5	1.90E-3	6.45E-5	2.34E-4	3.65E-6	-5.32E-4	1.67E-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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