

Environmental Profile

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

Ecochain v3.5.64



Product: 3078834 - Tegra 600 PP Cross 45° 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	3.21E+1	1.31E+0	1.35E+0	3.47E+1	6.48E-1	5.21E+1	3.17E-1	-3.35E+1	5.43E+1
GWP-f	kg CO2 eq	5.90E+1	1.31E+0	1.27E+0	6.16E+1	6.47E-1	2.50E+1	3.17E-1	-3.34E+1	5.42E+1
GWP-b	kg CO2 eq	-2.70E+1	6.05E-4	8.26E-2	-2.69E+1	3.93E-4	2.71E+1	2.80E-4	-9.86E-2	5.51E-2
GWP-luluc	kg CO2 eq	3.38E-2	4.80E-4	3.31E-4	3.46E-2	2.29E-4	3.56E-3	5.51E-6	-1.43E-2	2.41E-2
ODP	kg CFC11 eq	3.17E-6	2.89E-7	1.73E-7	3.63E-6	1.49E-7	4.91E-7	8.03E-9	-1.87E-6	2.41E-6
AP	mol H+ eq	2.42E-1	7.60E-3	3.94E-3	2.53E-1	3.69E-3	2.17E-2	1.92E-4	-1.02E-1	1.77E-1
EP-fw	kg P eq	1.16E-3	1.32E-5	1.79E-5	1.20E-3	5.33E-6	1.04E-4	2.52E-7	-4.41E-4	8.64E-4
EP-m	kg N eq	4.27E-2	2.68E-3	6.76E-4	4.61E-2	1.32E-3	6.63E-3	1.48E-4	-2.00E-2	3.42E-2
EP-T	mol N eq	4.89E-1	2.95E-2	7.24E-3	5.26E-1	1.45E-2	7.31E-2	7.79E-4	-2.33E-1	3.82E-1
POCP	kg NMVOC eq	2.10E-1	8.43E-3	2.42E-3	2.21E-1	4.16E-3	2.24E-2	2.92E-4	-9.43E-2	1.53E-1
ADP-mm	kg Sb eq	3.38E-3	3.32E-5	3.14E-5	3.44E-3	1.67E-5	7.87E-5	1.94E-7	-3.16E-4	3.22E-3
ADP-f	MJ	1.95E+3	1.98E+1	1.65E+1	1.98E+3	9.93E+0	6.31E+1	5.87E-1	-9.80E+2	1.08E+3
WDP	m3 depriv.	3.95E+1	7.07E-2	1.15E-1	3.96E+1	3.05E-2	1.28E+0	3.07E-3	-1.67E+1	2.42E+1
PM	disease inc.	2.97E-6	1.18E-7	3.12E-8	3.11E-6	5.84E-8	3.35E-7	4.03E-9	-1.04E-6	2.48E-6
IR	kBq U-235 eq	1.72E+0	8.28E-2	2.74E-2	1.83E+0	4.34E-2	1.92E-1	2.73E-3	-5.67E-1	1.50E+0
ETP-fw	CTUe	5.51E+2	1.76E+1	2.42E+1	5.92E+2	8.07E+0	8.09E+1	5.63E-1	-2.31E+2	4.51E+2
HTP-c	CTUh	2.70E-8	5.72E-10	1.19E-9	2.88E-8	2.87E-10	9.53E-9	1.46E-11	-1.09E-8	2.77E-8
HTP-nc	CTUh	5.27E-7	1.93E-8	2.77E-8	5.74E-7	9.62E-9	1.11E-7	3.34E-10	-2.10E-7	4.85E-7
SQP	Pt	2.47E+3	1.72E+1	4.85E+0	2.49E+3	8.50E+0	4.99E+1	1.50E+0	-1.23E+3	1.32E+3
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.31E+2	2.48E-1	3.64E+1	4.68E+2	1.43E-1	3.09E+0	2.31E-2	-2.06E+2	2.65E+2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	4.31E+2	2.48E-1	3.64E+1	4.68E+2	1.43E-1	3.09E+0	2.31E-2	-2.06E+2	2.65E+2
PENRE	MJ	2.09E+3	2.10E+1	1.80E+1	2.12E+3	1.05E+1	6.72E+1	6.22E-1	-1.06E+3	1.15E+3
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.09E+3	2.10E+1	1.80E+1	2.12E+3	1.05E+1	6.72E+1	6.22E-1	-1.06E+3	1.15E+3
PET	MJ	2.52E+3	2.12E+1	5.44E+1	2.59E+3	1.07E+1	7.03E+1	6.45E-1	-1.26E+3	1.41E+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	6.71E-1	2.41E-3	3.31E-3	6.77E-1	1.12E-3	4.55E-2	7.23E-4	-2.59E-1	4.65E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	5.08E-4	5.01E-5	2.20E-5	5.80E-4	2.54E-5	1.08E-4	7.07E-7	-3.54E-4	3.60E-4
NHWD	kg	3.77E+0	1.25E+0	5.61E-2	5.08E+0	6.16E-1	3.43E+0	2.58E+0	-1.38E+0	1.03E+1
RWD	kg	1.85E-3	1.30E-4	4.06E-5	2.02E-3	6.76E-5	2.45E-4	3.83E-6	-5.54E-4	1.78E-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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