

# Environmental Profile

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

Ecochain v3.5.64



Product: 4000666 - Tegra 600 PP Empty Base  
 Unit: 1 Piece  
 Manufacturer: Wavin Poland Buk  
 Address: Dobieżyńska 43  
 64-320 Buk  
 Poland  
 Contact: <https://www.wavin.com/en-en>

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	☑	☑	☑	☑
<b>Product stage</b>					<b>Use stage</b>							<b>End-of-Life stage</b>				
A1 Raw material supply A2 Transport A3 Manufacturing					B1 Use B2 Maintenance B3 Repair B4 Replacement B5 Refurbishment B6 Operational energy use B7 Operational water use							C1 De-construction demolition C2 Transport C3 Waste processing C4 Disposal				
<b>Construction process stage</b>					<b>Benefits and loads beyond the system boundaries</b>											
A4 Transport gate to site A5 Assembly / Construction installation process					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]

## Statement of Confidentiality

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# Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	2.93E+1	1.26E+0	1.64E+0	3.22E+1	6.38E-1	4.99E+1	3.09E-1	-3.25E+1	5.05E+1
GWP-f	kg CO2 eq	5.62E+1	1.25E+0	1.55E+0	5.91E+1	6.38E-1	2.28E+1	3.09E-1	-3.24E+1	5.04E+1
GWP-b	kg CO2 eq	-2.70E+1	5.79E-4	7.96E-2	-2.69E+1	3.87E-4	2.71E+1	2.72E-4	-9.90E-2	7.57E-2
GWP-luluc	kg CO2 eq	3.17E-2	4.60E-4	6.22E-4	3.27E-2	2.26E-4	3.55E-3	5.34E-6	-1.42E-2	2.23E-2
ODP	kg CFC11 eq	2.58E-6	2.77E-7	1.89E-7	3.05E-6	1.47E-7	4.85E-7	7.81E-9	-1.74E-6	1.95E-6
AP	mol H+ eq	2.26E-1	7.27E-3	6.82E-3	2.40E-1	3.63E-3	2.13E-2	1.87E-4	-1.01E-1	1.65E-1
EP-fw	kg P eq	1.07E-3	1.27E-5	3.40E-5	1.12E-3	5.25E-6	1.03E-4	2.45E-7	-4.36E-4	7.90E-4
EP-m	kg N eq	4.03E-2	2.56E-3	9.79E-4	4.39E-2	1.30E-3	6.49E-3	1.38E-4	-1.98E-2	3.20E-2
EP-T	mol N eq	4.62E-1	2.83E-2	1.09E-2	5.01E-1	1.43E-2	7.17E-2	7.57E-4	-2.30E-1	3.58E-1
POCP	kg NMVOC eq	1.98E-1	8.07E-3	3.65E-3	2.10E-1	4.09E-3	2.21E-2	2.84E-4	-9.33E-2	1.43E-1
ADP-mm	kg Sb eq	2.60E-3	3.18E-5	6.99E-5	2.71E-3	1.65E-5	7.82E-5	1.88E-7	-2.90E-4	2.51E-3
ADP-f	MJ	1.88E+3	1.89E+1	1.92E+1	1.91E+3	9.79E+0	6.26E+1	5.70E-1	-9.64E+2	1.02E+3
WDP	m3 depriv.	3.77E+1	6.77E-2	2.16E-1	3.80E+1	3.00E-2	1.25E+0	2.95E-3	-1.66E+1	2.27E+1
PM	disease inc.	2.80E-6	1.13E-7	4.90E-8	2.96E-6	5.76E-8	3.33E-7	3.92E-9	-1.03E-6	2.32E-6
IR	kBq U-235 eq	1.53E+0	7.92E-2	2.94E-2	1.64E+0	4.28E-2	1.91E-1	2.65E-3	-5.54E-1	1.32E+0
ETP-fw	CTUe	4.83E+2	1.69E+1	4.79E+1	5.48E+2	7.95E+0	7.76E+1	5.29E-1	-2.28E+2	4.06E+2
HTP-c	CTUh	2.49E-8	5.47E-10	2.40E-9	2.78E-8	2.83E-10	9.43E-9	1.41E-11	-1.07E-8	2.68E-8
HTP-nc	CTUh	4.75E-7	1.84E-8	5.82E-8	5.52E-7	9.47E-9	1.09E-7	3.20E-10	-2.08E-7	4.63E-7
SQP	Pt	2.45E+3	1.64E+1	9.22E+0	2.48E+3	8.37E+0	4.97E+1	1.46E+0	-1.23E+3	1.31E+3
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.95E+2	2.37E-1	8.34E+1	4.79E+2	1.40E-1	3.06E+0	2.23E-2	-2.06E+2	2.76E+2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.95E+2	2.37E-1	8.34E+1	4.79E+2	1.40E-1	3.06E+0	2.23E-2	-2.06E+2	2.76E+2
PENRE	MJ	2.01E+3	2.01E+1	2.08E+1	2.05E+3	1.04E+1	6.67E+1	6.05E-1	-1.04E+3	1.09E+3
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.01E+3	2.01E+1	2.08E+1	2.05E+3	1.04E+1	6.67E+1	6.05E-1	-1.04E+3	1.09E+3
PET	MJ	2.41E+3	2.03E+1	1.04E+2	2.53E+3	1.05E+1	6.98E+1	6.27E-1	-1.24E+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	6.27E-1	2.30E-3	6.16E-3	6.35E-1	1.11E-3	4.29E-2	7.03E-4	-2.57E-1	4.23E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	4.68E-4	4.79E-5	2.20E-5	5.38E-4	2.50E-5	1.06E-4	6.87E-7	-3.35E-4	3.35E-4
NHWD	kg	3.53E+0	1.20E+0	5.82E-2	4.79E+0	6.07E-1	3.36E+0	2.51E+0	-1.37E+0	9.91E+0
RWD	kg	1.60E-3	1.24E-4	4.06E-5	1.76E-3	6.66E-5	2.43E-4	3.72E-6	-5.38E-4	1.54E-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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