

Environmental Profile

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

Ecochain v3.5.71



Product: 3029605 - Hep20 PB Straight Tap Conn WT 15x3/4"
Unit: 1 piece
Manufacturer: Wavin - UK - Doncaster - Verified

Suitable for various professional plumbing jobs. Hep20 is packed with unique features that make push-fit plumbing fitting easier quicker and more secure for installers. No additional equipment or tools required when installing or demounting fittings compared to others where a solder or glue is required. Just push the pipework into the fitting to create a watertight seal. A wide range of plastic fittings, plumbing pipes and tubes are available. It is the only system with joint recognition and se

LCA standard: EN15804+A2 (2019)
Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off
Externally verified: Yes
Issue date: 09-02-2023
End of validity: 09-02-2028
Verifier: Martijn van Hövell - SGS Search



This LCA was evaluated according to EN15804+A2. It was concluded that the LCA complies with this standard.

The LCA background information and project dossier have been registered in the online Ecochain application in the account Wavin - UK - Doncaster - Verified (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					Use stage							End-of-Life stage				
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				
Construction process stage												Benefits and loads beyond the system boundaries				
A4 Transport gate to site																
A5 Assembly / Construction installation process												D Reuse- Recovery- Recycling- potential				

Environmental impacts and parameters

GWP-total = EF EN15804+A2 Climate Change [kg CO2 eq]; **GWP-f** = EF Climate change - Fossil [kg CO2 eq]; **GWP-b** = EF EN15804+A2 Climate Change - Biogenic [kg CO2 eq]; **GWP-luluc** = EF EN15804+A2 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	4.09E-1	2.61E-3	2.83E-2	4.40E-1	6.86E-4	4.12E-2	3.21E-4	-1.50E-1	3.32E-1
GWP-f	kg CO2 eq	4.11E-1	2.61E-3	2.62E-2	4.40E-1	6.86E-4	3.01E-2	3.21E-4	-1.54E-1	3.17E-1
GWP-b	kg CO2 eq	-2.26E-3	1.54E-6	2.10E-3	-1.58E-4	4.16E-7	1.11E-2	3.19E-7	3.92E-3	1.49E-2
GWP-luluc	kg CO2 eq	1.98E-4	9.37E-7	9.02E-6	2.08E-4	2.43E-7	3.31E-6	6.50E-9	-2.90E-5	1.83E-4
ODP	kg CFC11 eq	1.62E-8	6.00E-10	3.06E-9	1.99E-8	1.58E-10	9.36E-10	8.76E-12	-2.53E-9	1.84E-8
AP	mol H+ eq	2.16E-3	1.62E-5	5.95E-5	2.23E-3	3.91E-6	3.75E-5	2.18E-7	-5.67E-4	1.71E-3
EP-fw	kg P eq	1.42E-5	2.12E-8	1.76E-7	1.44E-5	5.64E-9	1.54E-7	2.95E-10	-2.95E-6	1.16E-5
EP-m	kg N eq	4.63E-4	5.62E-6	1.31E-5	4.81E-4	1.40E-6	1.13E-5	3.99E-7	-1.24E-4	3.70E-4
EP-T	mol N eq	4.09E-3	6.20E-5	1.25E-4	4.27E-3	1.54E-5	1.24E-4	8.65E-7	-1.29E-3	3.13E-3
POCP	kg NMVOC eq	1.32E-3	1.76E-5	4.06E-5	1.37E-3	4.40E-6	3.57E-5	3.15E-7	-5.26E-4	8.89E-4
ADP-mm	kg Sb eq	1.20E-5	6.65E-8	2.42E-7	1.23E-5	1.77E-8	1.56E-7	2.16E-10	-9.18E-7	1.15E-5
ADP-f	MJ	5.35E+0	3.99E-2	3.72E-1	5.76E+0	1.05E-2	8.86E-2	6.45E-4	-1.72E+0	4.14E+0
WDP	m3 depriv.	2.00E-1	1.21E-4	3.53E-3	2.04E-1	3.23E-5	1.51E-3	3.94E-6	-4.92E-2	1.56E-1
PM	disease inc.	2.28E-8	2.33E-10	4.36E-10	2.35E-8	6.19E-11	5.25E-10	4.40E-12	-6.32E-9	1.78E-8
IR	kBq U-235 eq	8.97E-3	1.74E-4	3.10E-4	9.46E-3	4.60E-5	3.22E-4	3.09E-6	-1.13E-5	9.82E-3
ETP-fw	CTUe	7.17E+0	3.23E-2	3.01E-1	7.50E+0	8.55E-3	1.72E-1	1.33E-3	-1.70E+0	5.98E+0
HTP-c	CTUh	2.43E-9	1.16E-12	1.26E-11	2.45E-9	3.04E-13	1.06E-11	1.77E-14	-1.82E-11	2.44E-9
HTP-nc	CTUh	8.05E-9	3.83E-11	2.62E-10	8.35E-9	1.02E-11	1.90E-10	5.45E-13	5.72E-9	1.43E-8
SQP	Pt	1.78E+0	3.37E-2	4.30E-2	1.86E+0	9.01E-3	-2.08E-1	1.63E-3	-1.39E+0	2.70E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	6.27E-1	5.68E-4	5.68E-1	1.20E+0	1.51E-4	-3.76E-2	2.91E-5	-2.43E-1	9.15E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	6.27E-1	5.68E-4	5.68E-1	1.20E+0	1.51E-4	-3.76E-2	2.91E-5	-2.43E-1	9.15E-1
PENRE	MJ	5.73E+0	4.24E-2	4.09E-1	6.19E+0	1.12E-2	9.42E-2	6.84E-4	-1.86E+0	4.43E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	5.73E+0	4.24E-2	4.09E-1	6.19E+0	1.12E-2	9.42E-2	6.84E-4	-1.86E+0	4.43E+0
PET	MJ	6.36E+0	4.29E-2	9.77E-1	7.38E+0	1.13E-2	5.66E-2	7.13E-4	-2.10E+0	5.35E+0
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	5.15E-3	4.48E-6	1.04E-4	5.26E-3	1.19E-6	5.71E-5	7.99E-7	-1.15E-3	4.17E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	4.71E-6	1.01E-7	4.05E-7	5.22E-6	2.69E-8	1.82E-7	7.78E-10	-4.07E-6	1.36E-6
NHWD	kg	1.83E-1	2.44E-3	1.89E-3	1.88E-1	6.52E-4	5.05E-3	2.80E-3	-4.66E-3	1.92E-1
RWD	kg	8.89E-6	2.72E-7	3.07E-7	9.46E-6	7.16E-8	4.28E-7	4.24E-9	-3.71E-7	9.60E-6
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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