



Uppgiftslämnaren reserverar sig för eventuella fel i produktinformationen eller felaktigt registrerade uppgifter och förbehåller sig rätten att korrigera och/eller komplettera produktinformation utan föregående avisering

## 1 GRUNDDATA

### Varubeskrivning

Rör med muff i PP för inomhusavlopp.

### Övriga upplysningar

Ljuddämpande rörsystem för inomhusavlopp.

### Klassificeringar

ETIM >	-EC010882 - Plaströr slätt
BK04 >	
BSAB >	
UNSPSC >	

### Leverantörsuppgifter

#### Företagsnamn

Pipelife Sverige AB

#### Organisationsnummer

5560870429

#### Adress

Box 50 52402 Ljung

#### Hemsida

www.pipelife.se

#### Miljökontaktperson

##### Namn

Yvette Lennartsson

##### Telefon

+4651322100

##### E-post

info@pipelife.se

## 2 HÅLLBARHETSARBETE

### Företagets certifiering

- ISO 9001
- ISO 14001

## INNEHÅLLSDEKLARATION

<b>Kemisk produkt</b>	Nej
<b>Innehåller produkten elektronik</b>	Ej angivet
<b>Omfattas varan av RoHs-direktivet</b>	Nej
<b>Varans vikt</b>	0,36 - 10,42 kg

### Vara / Delkomponenter

#### Koncentrationen har beräknats på komponentnivå

Rör m muff - 99% - 100% av hela varan

Ingående material /komponenter	Vikt-% i komponent	CAS-nr (alt legering)	EG-nr (alt legering)	Vikt % i produkt	Kommentar
Pigment	2%			1,98 - 2%	
Additiv/Krita	44,5%	1317-65-3		44,055 - 44,5%	
Polypropen (PP)	>53%	9010-79-1		Vänligen ange ett maxvärde	

**Del av materialinnehållet som är deklarerat** 99% - 100%

### Särskilt farliga ämnen

Varan innehåller INTE några ämnen med särskilt farliga egenskaper (Substances of very high concern, SVHC-ämnen) som finns med på kandidatförteckningen i en koncentration som överstiger 0,1 vikts-%

#### Utgåva av kandidatförteckningen som har använts

2024-01-23

### Nanomaterial

**Innehåller produkten tillsatt nanomaterial, som är medvetet tillsatta för att uppnå en viss funktion?:** Nej

### Tillsatt högflourerade ämnen (PFAS)

**Innehåller produkten tillsatt högflourerade ämnen (PFAS), som är aktivt tillsatta för att uppnå en specifik funktion?:** Nej

### Begränsningslistan

**Innehåller varan/produkten, eller någon av dess delkomponenter, ämnen som gör att produkten inte uppfyller villkoren i Begränsningslistan (Reach Bilaga XVII)?:** Nej

### POPs-förordningen

Innehåller varan (eller någon av dess delkomponenter) ämnen som finns i POPs-förordningen?: Nej

### Övrigt

Ämnen är redovisade ned till 0,1% viktprocent enligt iBVDs redovisningskrav. Eventuell avvikelse från redovisningskraven redovisas nedan

## 4 RÅVAROR

### Återvunnet material

Innehåller varan återvunnet material: Nej

### Träråvara

Träråvara ingår i varan: Nej

## 5 MILJÖPÅVERKAN

Finns en miljövarudeklaration framtagen enligt EN15804 eller ISO14025 för varan

Ja

Finns annan miljövarudeklaration

Nej

## 6 DISTRIBUTION

Beskrivning av emballagehantering för distribution av varan

träramar

## 7 BYGGSCKEDET

Ställer varan särskilda krav vid lagring?

Nej

Ställer varan särskilda krav på omgivande byggvaror?

Nej

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**BRUKSSKEDET**

Finns skötselansvisningar/skötselråd?	Nej
Finns en energimärkning enligt energimärkningsdirektivet (2017/1369/EU) för varan?	Ej relevant

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**RIVNING**

Kräver varan särskilda åtgärder för skydd av hälsa och miljö vid rivning/demontering?	Nej
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**AVFALLSHANTERING**

Omfattas den levererade varan av förordningen (2014:1075) om producentansvar för elektriska och elektroniska produkter när den blir avfall?	Nej
Är återanvändning möjlig för hela eller delar av varan?	Ja
Ja i den mån produkten är intakt.	
Är materialåtervinning möjlig för hela eller delar av varan?	Ja
Efter insamling och regenerering kan materialet återvinnas i nya rör .	
Är energiåtervinning möjlig för hela eller delar av varan?	Ja
Varan är brännbar	
Har leverantören restriktioner och rekommendationer för återanvändning, material- eller energiåtervinning eller deponering?	Nej
När den levererade varan blir avfall, klassas den då som farligt avfall?	Nej
Avfallskod (EWC) för den levererade varan	170203

RSK-nummer	Eget Artikel-nr	GTIN
253 10 03	70024570	9010459552198
253 10 04	70024571	9010459552204
253 10 05	70024572	9010459552129
274 90 27	70024484	9010459547248
274 90 28	70024485	9010459547255
274 90 29	70024486	9010459547262
274 90 30	70024472	9010459546937
274 90 31	70024487	9010459547279

**Produktdatablad**

**Prestandadeklaration**

**Säkerhetsblad**

**RoHS-intyg**

**Miljövarudeklaration**            NEPD-6144-5407\_Master3-pipes.pdf

**Skötselansvisning**

**Övriga bifogade dokument**

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# Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

## Master3+pipes



The Norwegian EPD Foundation

**Owner of the declaration:**

Pipelife Sverige AB

**Product:**

Master3+pipes

**Declared unit:**

1 kg

**This declaration is based on Product Category Rules:**

CEN Standard EN 15804:2012+A2:2019 serves as core

PCR

NPCR Part A: Construction products and services

**Program operator:**

The Norwegian EPD Foundation

**Declaration number:**

NEPD-6144-5407-EN

**Registration number:**

NEPD-6144-5407-EN

**Issue date:**

21.02.2024

**Valid to:**

21.02.2029

**EPD software:**

LCAno EPD generator ID: 197909

## General information

### Product

Master3 + pipes

### Program operator:

Post Box 5250 Majorstuen, 0303 Oslo, Norway  
The Norwegian EPD Foundation  
Phone: +47 23 08 80 00  
web: [post@epd-norge.no](mailto:post@epd-norge.no)

### Declaration number:

NEPD-6144-5407-EN

### This declaration is based on Product Category Rules:

CEN Standard EN 15804:2012+A2:2019 serves as core PCR  
NPCR Part A: Construction products and services

### Statement of liability:

The owner of the declaration shall be liable for the underlying information and evidence. EPD Norway shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

### Declared unit:

1 kg Master3 + pipes

### Declared unit (cradle to gate) with option:

A1-A3,A4,C1,C2,C3,C4,D

### Functional unit:

### General information on verification of EPD from EPD tools:

Independent verification of data, other environmental information and the declaration according to ISO 14025:2010, § 8.1.3 and § 8.1.4. Verification of each EPD is made according to EPD-Norway's guidelines for verification and approval requiring that tools are i) integrated into the company's environmental management system, ii) the procedures for use of the EPD tool are approved by EPD-Norway, and iii) the process is reviewed annually by an independent third party verifier. See Appendix G of EPD-Norway's General Programme Instructions for further information on EPD tools

### Verification of EPD tool:

Independent third party verification of the EPD tool, background data and test-EPD in accordance with EPDNorway's procedures and guidelines for verification and approval of EPD tools.

Third party verifier:

Michael M. Jenssen, Asplan Viak AS

(no signature required)

### Owner of the declaration:

Pipelife Sverige AB  
Contact person:  
Phone: +46 513 22114  
e-mail: [yvette.lennartsson@pipelife.com](mailto:yvette.lennartsson@pipelife.com)

### Manufacturer:

Pipelife Sverige AB

### Place of production:

Pipelife Sverige AB  
Box 50  
SE-524 02 Ljung , Sweden

### Management system:

EN ISO 9001:2015 and EN ISO 14001:2015

### Organisation no:

SE556087042901

### Issue date:

21.02.2024

### Valid to:

21.02.2029

### Year of study:

2023

### Comparability:

EPD of construction products may not be comparable if they not comply with EN 15804+A2 and seen in a construction context.

### Development and verification of EPD:

The declaration is created using EPD tool lca.tools ver EPD2022.03, developed by LCA.no. The EPD tool is integrated in the company's management system, and has been approved by EPD Norway.

Developer of EPD: Yvette Lennartsson

Reviewer of company-specific input data and EPD: Mattias Petersson

### Approved:



Håkon Hauan, CEO EPD-Norge



## Product

### Product description:

Plastic piping system for soil and waste discharge (low and high temperature) within the building structure made in mineral filled PP for silense reduction.

Conformity mark covered by certificate; Nordic Poly Mark

### Product specification

70024570, 70024571, 70024572, 70024472, 70024484, 70024485, 70024486, 70024487

Product related data to be found at Pipelife Sverige AB product catalogue <https://catalog.pipelife.com/se>

Materials	kg	%
Filler	0,45	44,50
Pigments	0,02	2,00
Polypropylene (PP)	0,54	53,50
Total	1,00	

### Technical data:

PP material with density 905 kg/m<sup>3</sup>.

Produced according SS EN 1451.

Sealing ring quality according EN 681-1.

### Market:

Europe, with scenario made for the Swedish market.

### Reference service life, product

Lifetime on product calculated more than 100 years.

### Reference service life, building

## LCA: Calculation rules

### Declared unit:

1 kg Master3+pipes

### Cut-off criteria:

### Allocation:

### Data quality:

Specific data for the product composition are provided by the manufacturer. The data represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on EPDs according to EN 15804 and different LCA databases. The data quality of the raw materials in A1 is presented in the table below.

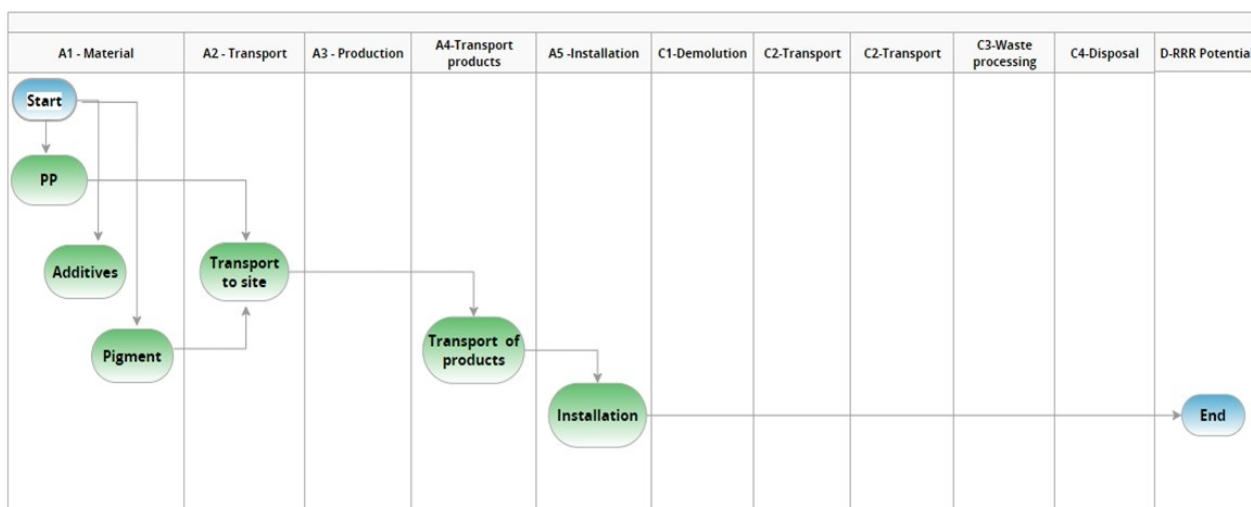
Materials	Source	Data quality	Year
Filler	ecoinvent 3.6	Database	2019
Pigments	ecoinvent 3.6	Database	2019
Polypropylene (PP)	ecoinvent 3.6	Database	2019

**System boundaries (X=included, MND=module not declared, MNR=module not relevant)**

Product stage			Construction installation stage		Use stage							End of life stage				Beyond the system boundaries
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	X	MND	MND	MND	MND	MND	MND	MND	MND	X	X	X	X	X

**System boundary:**

**EPD Process A1-D Master3plus Pipes**



**Additional technical information:**

Conformity mark covered by certificate; Nordic Poly Mark

**LCA: Scenarios and additional technical information**

The following information describe the scenarios in the different modules of the EPD.

A4 - "Transport", from plant to customer is calculated on distance of 100 km with truck EURO class 5 .

A5 - "Assembly", refer to NPCR 019 Part B Piping systems A2.

C1 - C4 "End of life stage", we assume that the fittings will remain within the building, therefore no data input.

D - "Beyond the system boundaries", we assume that the fittings will remain in the building, therefore no data input.

Transport from production place to user (A4)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Truck, 16-32 tonnes, EURO 6 (km)	36,7 %	100	0,043	l/tkm	4,30

## LCA: Results

The LCA results are presented below for the declared unit defined on page 2 of the EPD document.

Environmental impact									
Indicator	Unit	A1-A3	A4	C1	C2	C3	C4	D	
GWP-total	kg CO <sub>2</sub> -eq	1,32E+00	1,63E-02	0	0	0	0	0	0
GWP-fossil	kg CO <sub>2</sub> -eq	1,31E+00	1,63E-02	0	0	0	0	0	0
GWP-biogenic	kg CO <sub>2</sub> -eq	6,17E-03	6,76E-06	0	0	0	0	0	0
GWP-luluc	kg CO <sub>2</sub> -eq	3,15E-03	5,81E-06	0	0	0	0	0	0
ODP	kg CFC11 -eq	7,96E-08	3,70E-09	0	0	0	0	0	0
AP	mol H+ -eq	4,95E-03	4,69E-05	0	0	0	0	0	0
EP-FreshWater	kg P -eq	2,14E-05	1,31E-07	0	0	0	0	0	0
EP-Marine	kg N -eq	9,53E-04	9,29E-06	0	0	0	0	0	0
EP-Terrestrial	mol N -eq	1,07E-02	1,04E-04	0	0	0	0	0	0
POCP	kg NMVOC -eq	4,36E-03	3,98E-05	0	0	0	0	0	0
ADP-minerals&metals <sup>1</sup>	kg Sb-eq	1,57E-05	4,51E-07	0	0	0	0	0	0
ADP-fossil <sup>1</sup>	MJ	4,65E+01	2,47E-01	0	0	0	0	0	0
WDP <sup>1</sup>	m <sup>3</sup>	5,52E+02	2,39E-01	0	0	0	0	0	0







GWP-total = Global Warming Potential total; GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption

"Reading example: 9,0 E-03 = 9,0\*10<sup>-3</sup> = 0,009"

\*INA Indicator Not Assessed

1. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator

## Remarks to environmental impacts











Additional environmental impact indicators									
Indicator	Unit	A1-A3	A4	C1	C2	C3	C4	D	
 PM	Disease incidence	5,09E-08	1,00E-09	0	0	0	0	0	
 IRP <sup>2</sup>	kgBq U235 -eq	2,06E-01	1,08E-03	0	0	0	0	0	
 ETP-fw <sup>1</sup>	CTUe	1,11E+01	1,83E-01	0	0	0	0	0	
 HTP-c <sup>1</sup>	CTUh	3,53E-10	0,00E+00	0	0	0	0	0	
 HTP-nc <sup>1</sup>	CTUh	1,13E-08	2,00E-10	0	0	0	0	0	
 SQP <sup>1</sup>	dimensionless	5,05E+00	1,73E-01	0	0	0	0	0	

PM = Particulate Matter emissions; IRP = Ionizing radiation – human health; ETP-fw = Eco toxicity – freshwater; HTP-c = Human toxicity – cancer effects; HTP-nc = Human toxicity – non cancer effects; SQP = Soil Quality (dimensionless)

"Reading example: 9,0 E-03 = 9,0\*10<sup>-3</sup> = 0,009"

\*INA Indicator Not Assessed




1. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator
2. This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

Resource use									
Indicator	Unit	A1-A3	A4	C1	C2	C3	C4	D	
 PERE	MJ	3,06E+00	3,54E-03	0	0	0	0	0	
 PERM	MJ	0,00E+00	0,00E+00	0	0	0	0	0	
 PERT	MJ	3,06E+00	3,54E-03	0	0	0	0	0	
 PENRE	MJ	3,06E+01	2,47E-01	0	0	0	0	0	
 PENRM	MJ	1,75E+01	0,00E+00	0	0	0	0	0	
 PENRT	MJ	4,81E+01	2,47E-01	0	0	0	0	0	
 SM	kg	1,48E-03	0,00E+00	0	0	0	0	0	
 RSF	MJ	4,61E-02	1,26E-04	0	0	0	0	0	
 NRSF	MJ	4,13E-02	4,52E-04	0	0	0	0	0	
 FW	m <sup>3</sup>	7,14E-02	2,64E-05	0	0	0	0	0	

PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non renewable primary energy resources used as raw materials; PENRT = Total use of non renewable primary energy resources; SM = Use of secondary materials; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Net use of fresh water

"Reading example: 9,0 E-03 = 9,0\*10<sup>-3</sup> = 0,009"






\*INA Indicator Not Assessed

End of life - Waste									
Indicator	Unit	A1-A3	A4	C1	C2	C3	C4	D	
	HWD	kg	3,86E-03	1,27E-05	0	0	0	0	0
	NHWD	kg	1,67E-01	1,20E-02	0	0	0	0	0
	RWD	kg	1,13E-04	1,68E-06	0	0	0	0	0

HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed

\*Reading example: 9,0 E-03 = 9,0\*10<sup>-3</sup> = 0,009"

\*INA Indicator Not Assessed

End of life - Output flow									
Indicator	Unit	A1-A3	A4	C1	C2	C3	C4	D	
	CRU	kg	0,00E+00	0,00E+00	0	0	0	0	0
	MFR	kg	1,10E-04	0,00E+00	0	0	0	0	0
	MER	kg	1,34E-02	0,00E+00	0	0	0	0	0
	EEE	MJ	7,37E-03	0,00E+00	0	0	0	0	0
	EET	MJ	1,12E-01	0,00E+00	0	0	0	0	0

CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported energy electrical; EET = Exported energy thermal

\*Reading example: 9,0 E-03 = 9,0\*10<sup>-3</sup> = 0,009"

\*INA Indicator Not Assessed

Biogenic Carbon Content		
Indicator	Unit	At the factory gate
Biogenic carbon content in product	kg C	0,00E+00
Biogenic carbon content in accompanying packaging	kg C	0,00E+00

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO<sub>2</sub>

## Additional requirements

### Greenhouse gas emissions from the use of electricity in the manufacturing phase

National production mix from import, low voltage (production of transmission lines, in addition to direct emissions and losses in grid) of applied electricity for the manufacturing process (A3).

Electricity mix	Data source	Amount	Unit
Electricity, Sweden (kWh)	ecoinvent 3.6	54,94	g CO <sub>2</sub> -eq/kWh

### Dangerous substances

The product contains no substances given by the REACH Candidate list.

### Indoor environment

## Additional Environmental Information






Additional environmental impact indicators required in NPCR Part A for construction products								
Indicator	Unit	A1-A3	A4	C1	C2	C3	C4	D
GWPIOBC	kg CO <sub>2</sub> -eq	1,23E+00	1,63E-02	0	0	0	0	0

GWPIOBC: Global warming potential calculated according to the principle of instantaneous oxidation. In order to increase the transparency of biogenic carbon contribution to climate impact, the indicator GWP-IOBC is required as it declares climate impacts calculated according to the principle of instantaneous oxidation. GWP-IOBC is also referred to as GWP-GHG in context to Swedish public procurement legislation.



## Bibliography

ISO 14025:2010 Environmental labels and declarations - Type III environmental declarations - Principles and procedures.  
 ISO 14044:2006 Environmental management - Life cycle assessment - Requirements and guidelines.  
 EN 15804:2012+A2:2019 Environmental product declaration - Core rules for the product category of construction products.  
 ISO 21930:2017 Sustainability in buildings and civil engineering works - Core rules for environmental product declarations of construction products.  
 ecoinvent v3, Allocation, cut-off by classification, Swiss Centre of Life Cycle Inventories.  
 Iversen et al., (2021) eEPD v2021.09 Background information for EPD generator tool system verification, LCA.no rapportnummer: : 07.21.  
 Vold, et al., (2019) EPD generator for Pipelife - Background information for customer application and LCA data. report number 08.19  
 NPCR Part A: Construction products and services. Ver. 2.0. March 2021, EPD-Norge.

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	ECO Platform ECO Portal	web: <a href="http://www.eco-platform.org">www.eco-platform.org</a> web: ECO Portal