

HDPE corrugated ID pipes

Technical Datasheet

Application

Peštan HDPE corrugated ID pipes are used in civil engineering in drainage systems of all types of wastewater. The pipes are intended for installation below the ground surface and are used in all types of projects:

- Highways
- Airports
- Railways
- Street sewerage
- Drainage of wastewater and atmospheric water

Product description

Polyethylene HDPE pipes are sorted according to the inner diameter ID. They are made of high density polyethylene according to standard EN13476 and have high resistance to blows. They are connected with EPDM rubber sealing rings or SAG. The outer layer of the pipe is black, and the inner is white.



Mechanical and physical characteristics

They have good flexibility and good hydraulic properties. High impact resistance and long service life (about 100 years). The light weight of the pipe allows easy manipulation and installation. Good mechanical properties, good impact resistance even on low temperatures. They can be completely recycled.

Characteristic and technical data

- Material: HDPE
- Standard: DIN 4262/1
- Density: $>0.945 \text{ kg/m}^3$
- Dispensing index: MFI 190 °C/5 Kg 0.35-1.3 gr/10'
- Elasticity modulus: $> 800 \text{ MPa}$
- Coefficient of linear thermal expansion: $0.17 \text{ mm/m} \text{ } ^\circ\text{K}$
- Thermal conductivity coefficient: at 23 °C - $0.36\text{-}0.5 \text{ W/mk}$
- Surface electrical resistance: $> 10^{13}\Omega$
- The connection method is via a socket without an eraser
- Laying and use of HDPE pipeline is from $-40 \text{ } ^\circ\text{C}$ to $+60 \text{ } ^\circ\text{C}$.
- Ring strength SN = 4KN/m^2 (EN ISO 9969)
- The standard color is BLACK

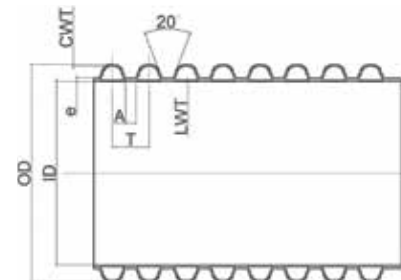
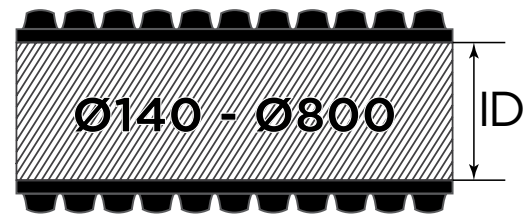
Chemical resistance

- * High chemical resistance to a large number of compounds.
- * Plastic pipes and fittings - Combined chemical resistance classification table ISO 10358.

Product Availability

The pipes are made in a standard length of 6 m. Diameter of $\varnothing 140$ to $\varnothing 800$ mm. All diameters can be made using strength classes rings SN4 and SN8, and on request we also produce SN12 and SN16. We produce HDPE corrugated pipes for the complete program all necessary fittings as well as transition pieces for connection with pipes of other materials.

Fitting: Arches (30° , 45° , 60° , 90°), SAG, end cap, eccentric reducer, transition from corrugated to smooth pipe, T-piece.



DN		OD	ID	E	CWT	LWT	T	A	KG/M
Ø140	SN4	Ø160	Ø139.8	1.2	0.5-0.9	0.9	17.44	3.5	0.8-1.1
	SN8	Ø160	Ø139	1.6	0.9-1.2	1.1	17.44	3.5	1.1-1.4
Ø200	SN4	Ø227	Ø199	1.7	0.9-1.2	1.2	22.43	4.5	1.8-2.0
	SN8	Ø227	Ø198	2.2	1.2-1.6	1.4	22.43	4.5	2.1-2.5
Ø250	SN4	Ø283	Ø249	2.2	1.2-1.4	1.5	26.17	5.1	2.8-3.1
	SN8	Ø283	Ø248	2.7	1.6-2.0	1.6	26.17	5.1	3.6-3.85
Ø300	SN4	Ø340	Ø298.2	2.6	1.3-1.5	1.7	31.4	5.5	3.8-4.2
	SN8	Ø340	Ø297	3.2	1.7-2.2	1.8	31.4	5.5	4.5-5.2
Ø400	SN4	Ø453	Ø397.8	3.2	1.4-1.7	2.2	39.25	7.9	5.8-6.6
	SN8	Ø453	Ø396	4.1	2.2-2.6	2.5	39.25	7.9	8.1-8.9
Ø500	SN4	Ø567	Ø497.6	4.2	1.8-2.2	3.0	52.78	9.4	9.8-10.7
	SN8	Ø567	Ø495	5.5	2.4-3.1	3.3	52.78	9.4	12.6-13.5
Ø600	SN4	Ø680	Ø597	5.2	2.6-3.0	3.5	65.97	13.2	15.0-16.5
	SN8	Ø680	Ø594	6.7	3.4-3.8	3.8	65.97	13.2	18.7-19.3
Ø800	SN4	Ø906	Ø796	6.5	2.8-3.2	4.5	89.87	19.3	24.0-25.8
	SN8	Ø906	Ø792	8.5	4.3-5.1	4.7	89.87	19.3	31.6-33.4

Technical Assistance

Our technical and engineering team is supported and advised by European institutes. For more information about products please contact PEŠTAN technical support or regional salesman.



BELNIIS - Belarus



KIWA - Netherland



VUPS - Czech Republic



BELNIIS - Belarus



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