

PP Strong Pipes

Technical Datasheet

Application

PP STRONG pipes are intended for areas with great static pressure, such as airports, highways and railroads. PP STRONG system is universal and can be used for removing all types of waste waters in low construction. Use in civil engineering for waste water.

Application Areas:

1. Municipal sewage;
 - New Construction;
 - Replacement of the existing sewerage network
2. Chemical and mechanical industry
 - Excellent chemical resistance (ph value 2-12)
 - Suitable for use in heavy traffic load
3. Food Industry
 - High resistance to temperature and resistance to cyclic work
 - Resistance to chemical cleaners
4. Roads (highways, main roads, airports...)
 - Resistance to high static and dynamic loads
 - High obliged cruelty

5. Water Protection Zone II and III
6. Special applications

Product description

PP Strong is a system of sewer pipes and fittings for heavy loads. It is made of polypropylene. It is made as a homogeneous full-wall pipe without mineral additives with an extremely smooth inner surface. Pipe are made according to standard EN 1852. Pipes are joined using connecting elements (fittings), while the waterproofness of the connection is ensured by rubber rings (safety lock) made of EPDM rubber with plastic reinforcement. Pipe is made in brown color.

Mechanical and physical characteristics

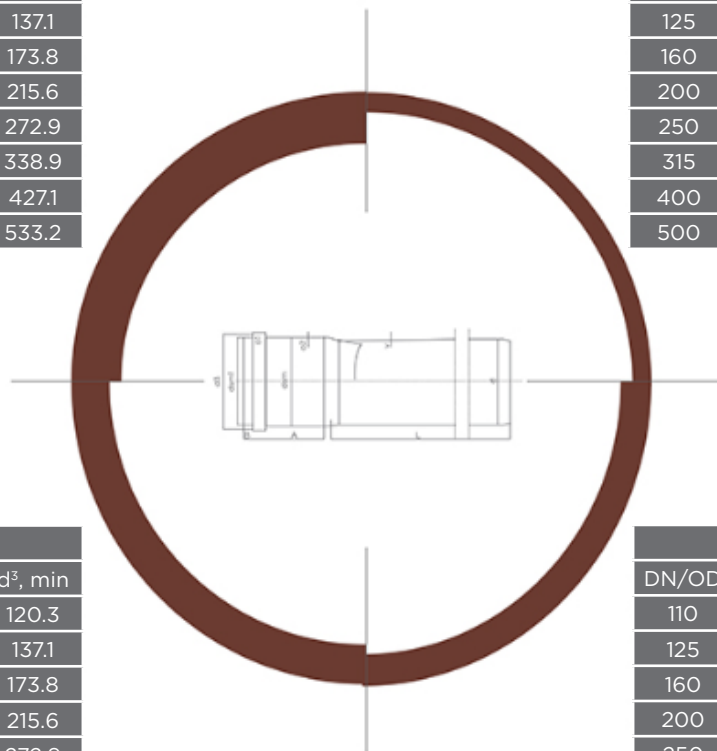
High static and dynamic loads, high impact resistance, increased ring stiffness, increased longitudinal stiffness, long service life.

SDR 24,6 SN12

DN/OD	e min	A min	B min	d ³ , min
110	4.5	40	6	120.3
125	5.1	43	7	137.1
160	6.5	50	9	173.8
200	8.1	58	12	215.6
250	10.2	68	18	272.9
315	12.8	81	20	338.9
400	16.3	98	24	427.1
500	20.3	118	28	533.2

SDR 33 SN 4

DN/OD	e min	A min	B min	d ³ , min
110	3.4	40	6	120.3
125	3.9	43	7	137.1
160	4.9	50	9	173.8
200	6.2	58	12	215.6
250	7.7	68	18	272.9
315	9.7	81	20	338.9
400	12.3	98	24	427.1
500	15.3	118	28	533.2



SDR 26 SN10

DN/OD	e min	A min	B min	d ³ , min
110	4.2	40	6	120.3
125	4.8	43	7	137.1
160	6.2	50	9	173.8
200	7.7	58	12	215.6
250	9.6	68	18	272.9
315	12.81	81	20	338.9
400	15.4	98	24	427.1
500	19.2	118	28	533.2

SDR 29 SN 8

DN/OD	e min	A min	B min	d ³ , min
110	3.8	40	6	120.3
125	4.3	43	7	137.1
160	5.5	50	9	173.8
200	6.9	58	12	215.6
250	8.6	68	18	272.9
315	10.8	81	20	338.9
400	13.7	98	24	427.1
500	17.1	118	28	533.2

Material characteristics	Value	Standard
Density	900 kg/m ³	ISO 1183
MFR (230 °C/2,16 kg)	≤1,5 g/10 min	ISO 1183
Internal pressure test (80 °C, 4,2 MPa)	» 140 h	ISO 1167-1
Internal pressure test (95 °C, 2,5 MPa)	» 1000 h	ISO 1167-2
Rensile Strain at Yield (50 mm/min)	6,5 %/33 MPa	ISO 527-1 ISO 527±2
Charpy Impact Strength (23 °C/-20 °C)	29/2 kJ/m ²	ISO 179/1 eA
Ring stiffness, SN	4, 8, 10, 12, 16	ISO 9969
Chemical resistance	2... 12 pH	ISO/TR 10 358
Temperature resistance (short term/longterm)	90/60 °C	
Temperature conductivity	0,2 W/mK	DIN 52612
Linear coefficient of stretching	0,14 mm/Km	DIN 52328
Module of elasticity	2000 MPa	ISO 178
Connection technique	Socket and rubber	
Rubber ring	Rubber ring with plastic strengthened in different color and with closing surfaces	

Chemical resistance

High chemical resistance to a large number of compounds (pH 1 - pH 13).

*Plastic pipes and fittings - Combined chemical-resistance classification table ISO/TR 10358.

Product Availability

Available in standard lengths: 1, 2, 3, 4, 5, 6 m.

Available in non-standard lengths: 12, 13,5, 16 m.

Diameter from ø110 to ø500 mm.

Ring stiffness of the pipe: SN8, SN10, SN12, SN16.

A wide range of fittings (from DN110 to DN630): knees, T-branches, K-branches, reducers, couplings.



SN 4									Sn 8			Sn 10			Sn 12			SN 16		
DN (mm)	S (mm)	L (mm)	DN (mm)	S (mm)	L (mm)	DN (mm)	S (mm)	L (mm)	DN (mm)	S (mm)	L (mm)	DN (mm)	S (mm)	L (mm)						
110	3.4	1000	110	3.8	1000	110	4.2	1000	110	4.5	1000	110	5	1000						
		3000			3000			3000			3000									
		6000			6000			6000			6000									
125	3.9	1000	125	4.3	1000	125	4.8	1000	125	5.1	1000	125	5.7	1000						
		3000			3000			3000			3000									
		6000			6000			6000			6000									
160	4.9	1000	160	5.5	1000	160	6.2	1000	160	6.5	1000	160	7.3	1000						
		3000			3000			3000			3000									
		6000			6000			6000			6000									
200	6.2	1000	200	6.9	1000	200	7.7	1000	200	8.1	1000	200	9.1	1000						
		3000			3000			3000			3000									
		6000			6000			6000			6000									
250	7.7	1000	250	8.6	1000	250	9.6	1000	250	10.2	1000	250	11.4	1000						
		3000			3000			3000			3000									
		6000			6000			6000			6000									
315	9.7	1000	315	10.8	1000	315	12.1	1000	315	12.8	1000	315	14.4	1000						
		3000			3000			3000			3000									
		6000			6000			6000			6000									
400	12.3	1000	400	13.7	1000	400	15.4	1000	400	16.3	1000	400	18.2	1000						
		3000			3000			3000			3000									
		6000			6000			6000			6000									
500	15.3	1000	500	17.1	1000	500	19.2	1000	500	20.3	1000	500	22.8	1000						
		3000			3000			3000			3000									
		6000			6000			6000			6000									

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



IGH - Croatia



MPA - Germany



VUPS - Czech Republic



BELNIIS - Belarus



IMS - Serbia



GOST R - Russia