

SANBOR®

INFRASTRUCTURE PIPE SYSTEMS

Infrastructure & Water Pipes



PRODUCT CATALOGUE



ISO 9001
BUREAU VERITAS
Certification





Double layer SANBOR corrugated pipes made of high density polyethylene are produced depending on TS EN 13476-3+A1 standard. In recent years, the use of Corrugated Pipes has become widespread thanks to their resistance to chemicals created in the pipeline or produced outside and transferred to the system, long life span, easy assembly, maintenance and repair, eco-friendly structure with impermeability and high endurance.



Areas of Usage

- Municipal sewage and domestic sewage removal systems
- Sewage water removal systems
- Rain and snow water carriage and drainage pipelines
- Drainage and ground water carriage pipelines
- Industrial sewer systems
- Unpressured, gravity water carriage systems
- Chemical and biological sewer systems
- Cable protection for energy and communication system

Advantages

- External Load Resistance
- Long Service Life
- Easy Montage
- Impermeability
- Easy Transportation and Piling
- Production at the Desired Length



CORRUGATED PIPE WITHOUT MUFF

Nom.OD (mm)	Rigidness (kN/m ²)
100	SN 4
150	
200	
300	
400	
500	SN 8
600	
800	
1000	

CORRUGATED PIPE WITH MUFF

Nom.OD (mm)	Rigidness (kN/m ²)
150	SN 4
200	
300	
400	
500	
600	SN 8
800	
1000	



ELBOW 90°



Nom.OD (mm)
100, 150
200, 300
400, 500
600, 800



ELBOW 45°

Nom.OD (mm)
100, 150
200, 300
400, 500
600, 800



SOCKET

Nom.OD (mm)
100, 150
200, 300
400, 500
600, 800

TE



Nom.OD (mm)
100/100
150/150
200/200
300/300
400/400
500/500
600/600



UNEQUAL TE

Nom.OD (mm)
150/100
200/100
200/150
300/150
300/200
400/100
400/200
400/300
500/100
500/150
500/200
500/300
500/400
600/100
600/150
600/200
600/300
600/400
600/500



TE PVC

Nom.OD (mm)
150/100
200/100
200/150
300/100
300/150
300/200
400/100
400/200
500/100
500/150
500/200
600/100
600/150
600/200

END CAP



Nom.OD (mm)
100, 150
200, 300
400, 500
600, 800

Material Specifications

Test	Test Conditions	Unit	Result	Method
Density	23°C	g/cm ³	≥ 0.930	ISO 1183
Melt Flow Index (MFI)	190°C	g/10min	≤ 1.6	ISO 1133
Elasticity	23°C 1mm/min.	Mpa	≥ 800	ISO 527
Thermal Stability (OIT)	200°C	min	≥ 20	ISO 11357-6
Vicat Softening Temperature	10 N	°C	125-135	ISO 306

Test Applications

Test	Test Conditions	Unit	Result	Method
Density	23°C	g/cm ³	≥ 0.930	ISO 1183
Melt Flow Index (MFI)	190°C	g/10min	≤ 1.6	ISO 1133
Longitudinal Reversion	-	%	< 3.0	ISO 2505
Temperature Resistance	-	Mpa	Proper	ISO 12091
Ring Flexibility	-	min	Proper	ISO 13968
Ring Stiffness	-	kN/m ²	≥ SN value	ISO 969
Impact Resistance	-	-	Proper	EN 744
Leakproofing Test	-	-	No Leakage	EN 1053
Thermal Stability (OIT)	200°C	min	≥ 20	ISO 11357-6

Loading Quantities

Diameter (mm)	100	150	200	300	400	500	600	800	1000
Semi-Truck	550	230	140	65	33	22	15	9	5
Truck	1000	460	280	130	65	45	30	16	8



Polyethylen 100 is the most powerful PE pipe material with high pressure resistance. Compared to PE 40 and PE 80 pipes with the same operating pressure, it has more wall thickness, which means it has a bigger internal diameter. One size smaller pipes can be used for the same flow. The colors of PE pipes are blue and black. PE 100 pipes can be delivered as tube coils for up to 125 mm diameter and 6 and 12 meter long plain tubes for bigger diameters.

SANBOR produces PE 100 having features with the guarantee of ISO 9001: 2015, TS EN 12201-1, ISO 4427, DIN 8074.

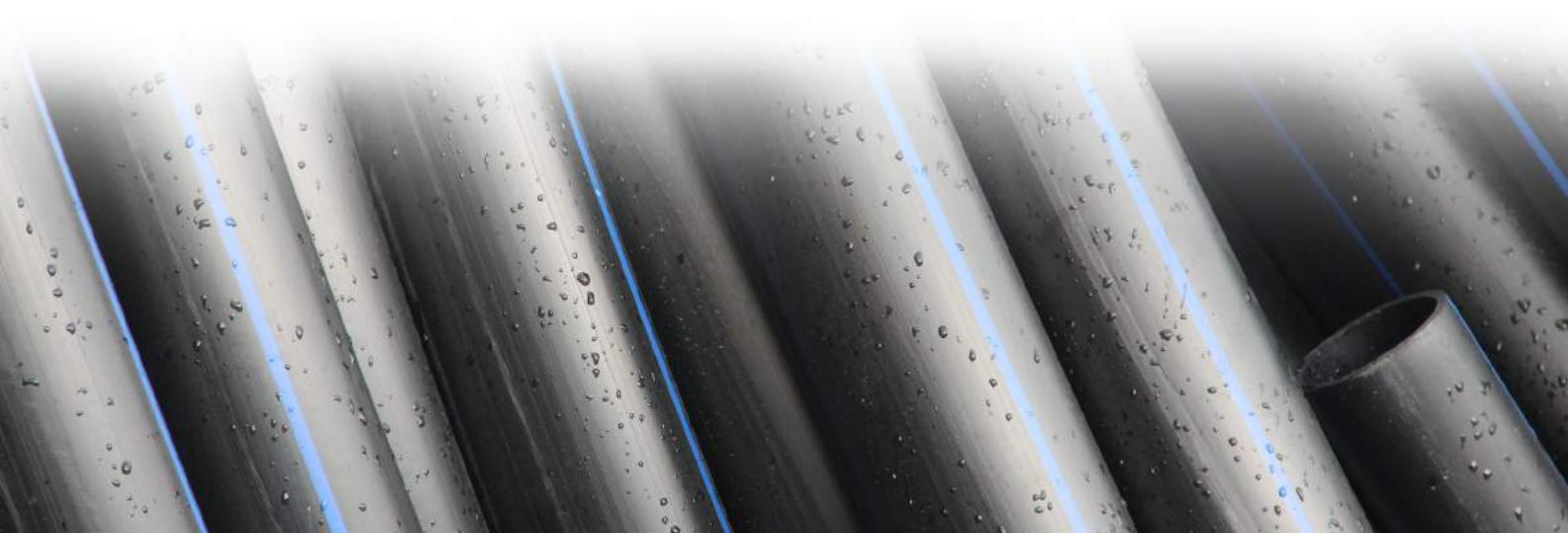


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Features

- It has long life span. It is resistant to high pressure and impact.
- It is durable. It does not get affected from underground movement and break.
- It has resistance to chemicals. It does not get affected from corrosion, decay and abraded.
- High level of elasticity provides an easy montage.
- It can be produced as coils and flat pipes.



Material Specifications

Test	Test Conditions	Unit	Result	Method
Density	23°C	g/cm ³	≥ 0.940	ISO 1183
Melt Flow Index (MFI)	5 kg 190°C	g/10min	0.16-0.7	ISO 1133
Elasticity	23°C 1mm/min.	Mpa	≥ 800	ISO 527-3
Carbon Black Dispersion			≤ 3	ISO 18553
Carbon Black Rate	550 +- 50 °C	%	2.0 - 2.5	ISO 6964
Thermal Stability (OIT)	200°C	dk	≥ 20	ISO 11357-6

Test Applications

Test	Test Conditions	Unit	Result	Method
Density	23°C	g/cm ³	≥ 0.940	ISO 1183
Melt Flow Index Change	190°C	%	≤ 20	ISO 1133
Elongation at Break	-	%	≥ 350	ISO 6259
Longitudinal Reversion	-	%	< 3.0	ISO 2505
Hydrostatic Stress	20°C 12 Mpa	Hour	≥ 100	ISO 1167
Hydrostatic Stress	80°C 5.4 Mpa	Hour	≥ 165	ISO 1167
Hydrostatic Stress	80°C 5 Mpa	Hour	≥ 1000	ISO 1167
Thermal Stability (OIT)	200°C	min	≥ 20	ISO 11357-6
Effect on Drinking Water Quality		-	Proper	National Regulation

Plastic Manhole Boxes

Plastic manhole boxes are highly durable. They are used often by municipalities in park and landscape gardening, electricity, data infrastructures. Plastic manhole boxes are produced in 5 sizes: 20x20, 30x30, 40x40, 50x50 and 55x55.



ÇAP mm	SDR 41 PN 4		SDR 33 PN 5		SDR 26 PN 6		SDR 21 PN 8		SDR 17 PN 10		SDR 13.6 PN 12.5		SDR 11 PN 16		SDR 9 PN 20		SDR 7.4 PN 25	
	S mm	Kg/m	S mm	Kg/m	S mm	Kg/m	S mm	Kg/m	S mm	Kg/m	S mm	Kg/m	S mm	Kg/m	S mm	Kg/m	S mm	Kg/m
20													2.00	0.117	2.30	0.131	3.00	0.153
25											2.00	0.150	2.30	0.171	3.00	0.211	3.54	0.239
32								2.00	0.196		2.40	0.230	3.00	0.280	3.60	0.326	4.40	0.391
40							2.00	0.249	2.40	0.293	3.00	0.356	3.70	0.430	4.50	0.507	5.50	0.606
50					2.00	0.286	2.40	0.371	3.00	0.454	3.70	0.549	4.60	0.666	5.60	0.787	6.90	0.931
63					2.50	0.473	3.00	0.580	3.80	0.721	4.70	0.873	5.80	1.050	7.10	1.252	8.60	1.480
75					2.90	0.632	3.60	0.825	4.50	1.015	5.60	1.240	6.80	1.480	8.40	1.744	10.3	2.100
90					3.50	0.921	4.30	1.178	5.40	1.457	6.70	1.770	8.20	2.120	10.1	2.537	12.3	3.020
110					4.20	1.359	5.30	1.767	6.60	2.176	8.10	2.620	10.0	3.140	12.3	3.773	15.1	4.490
125					4.80	1.733	6.00	2.269	7.40	2.807	9.20	3.370	11.4	4.080	14.0	4.875	17.1	5.800
140					5.40	2.194	6.70	2.834	8.30	3.468	10.3	4.220	12.7	5.110	15.7	6.018	19.2	7.270
160					6.20	2.846	7.70	3.714	9.50	4.540	11.8	5.500	14.6	6.670	17.9	7.970	21.9	9.470
180					6.90	3.553	8.60	4.663	10.7	5.733	13.3	6.980	16.4	8.420	20.1	10.06	24.6	12.00
200					7.70	4.404	9.60	5.776	11.9	7.078	14.7	8.560	18.2	10.40	22.4	12.45	27.4	14.00
225					8.60	5.631	10.8	7.303	13.4	8.976	16.6	10.90	20.5	13.10	25.2	15.75	30.8	18.70
250					9.60	7.937	11.9	8.938	14.8	10.99	18.4	13.40	22.7	16.20	27.9	19.38	34.2	23.10
280					10.7	8.618	13.4	11.26	16.6	13.79	20.6	16.80	25.4	20.30	31.3	24.34	38.3	28.90
315	7.70	7.52	9.70	9.370	12.1	10.93	15.0	14.17	18.7	17.47	32.2	21.20	28.6	25.70	35.2	30.79	43.1	36.60
355	8.70	9.55	10.9	11.80	13.6	13.92	16.9	17.98	21.1	22.20	26.1	26.90	32.2	32.50	39.7	39.12	48.5	46.40
400	9.80	12.1	12.3	15.10	15.3	17.66	19.1	22.88	23.7	28.09	29.4	34.10	36.3	41.40	44.7	49.62	54.7	59.00
450	11.0	15.3	13.8	19.00	17.2	22.27	21.5	28.96	26.7	35.59	33.1	43.20	40.9	52.40	50.3	62.81	61.5	74.60
500	12.3	19.0	15.3	23.40	19.1	27.47	23.9	35.76	29.7	43.97	36.8	53.30	45.4	64.85	55.8	77.42	68.3	91.80
560	13.7	23.6	17.2	29.40	21.4	34.47	26.7	44.73	33.2	55.04	41.2	66.90	50.8	81.46	62.5	97.00		
630	15.4	29.9	19.3	37.10	24.1	43.54	30.0	56.52	37.4	69.72	46.3	84.60	57.2	102.8	70.3	125.0		

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SANBOR has met and maintains the rigorous standards required to become a certified by ISO 9001, ISO 14001 and ISO 18001

