

## TECHNICAL DATA SHEET

Product : High Density Polyethylene pipe

Raw material : **PE100**

Applications : cable protection

Standard : **Réf. EN 12201**

Colour : Black with red stripes



Characteristics	Requirements	Test method
Density	$\geq 950 \text{ kg/m}^3$	EN ISO 1183
Resistance to internal pressure 100h/20°C/ $\sigma$ 12.0 MPa	$\geq 100 \text{ h}$	EN ISO 1167
Resistance to internal pressure 165h/80°C/ $\sigma$ 5.4 Mpa	$\geq 165 \text{ h}$	EN ISO 1167
Resistance to internal pressure 1000h/80°C/ $\sigma$ 5.0 Mpa	$\geq 1000 \text{ h}$	EN ISO 1167
Thermal Stability (O.I.T.) at 210°C	$\geq 20'$	ISO 11357-6
Carbon black content (%)	2.0 ÷ 2.5 by mass	ISO 6964
Carbon black dispersion	$\leq$ grade 3	ISO 18553
Tensile stress at yield (50 mm/min) MPa	$\geq 19$	ISO 6259
Tensile elongation at break	$\geq 350\%$	ISO 6259

Optimal pressure authorized by EN12201-2:2013 is 25 bar with water at 20°C.  
Pressure correction factors according to the temperature of the fluid transported:

T = 20°C / F = 1.00

T = 30°C / F = 0.87

T = 40°C / F = 0.74

Other characteristic : Linear thermal expansion 0.18 ÷ 0.22 mm/m °C

### DIMENSION CHARACTERISTICS – EN ISO 3126

DN (mm)	Ø EXT min (mm)	Ø EXT max (mm)	OVAL max (mm)	PN 10		PN 12.5		PN 16		PN20		PN 25	
				SDR17		SDR 13.6		SDR 11		SDR 9		SDR 7.4	
				Ep. Min	Ep. Max	Ep. Min	Ep. Max	Ep. Min	Ep. Max	Ep. Min	Ep. Max	Ep. Min	Ep. Max
20	20.0	23.3	1.2									3.0	3.4
25	25.0	25.3	1.2							3.0	3.4	3.5	4.0
32	32.0	32.3	1.3					3.0	3.4	3.6	4.1	4.4	5.0
40	40.0	40.4	1.4			3.0	3.5	3.7	4.2	4.5	5.1	5.5	6.2
50	50.0	50.4	1.5	3.0	3.4	3.7	4.2	4.6	5.2	5.6	6.3	6.9	7.7
63	36.0	63.4	1.6	3.8	4.3	4.7	5.3	5.8	6.5	7.1	8.0	8.6	9.6
75	75.0	75.5	1.8	4.5	5.1	5.6	6.3	6.8	7.6	8.4	9.4	10.3	11.5
90	90.0	90.6	1.8	5.4	6.1	6.7	7.5	8.2	9.2	10.1	11.3	12.3	13.7
110	110.0	110.7	2.2	6.6	7.4	8.1	9.1	10.0	11.1	12.3	13.7	15.1	16.8
125	125.0	125.8	2.5	7.4	8.3	9.2	10.3	11.4	12.7	14.0	15.6	17.1	19.0
140	140.0	140.9	2.8	8.3	9.3	10.3	11.5	12.7	14.1	15.7	17.4	19.2	21.3
160	160.0	161.0	3.2	9.5	10.6	11.8	13.1	14.6	16.2	17.9	19.8	21.9	24.2
180	180.0	181.1	3.6	10.7	11.9	13.3	14.8	16.4	18.2	20.1	22.3	24.6	27.2
200	200.0	201.2	4.0	11.9	13.2	14.7	16.3	18.2	20.2	22.4	24.8	27.4	30.3
225	225.0	226.4	4.5	13.4	14.9	16.6	18.4	20.5	22.7	25.2	27.9	30.8	34.0
250	250.0	251.5	5.0	14.8	16.4	18.4	20.4	22.7	25.1	27.9	30.8	34.2	37.8
280	280.0	281.7	9.8	16.6	18.4	20.6	22.8	24.4	28.1	31.3	34.6	38.3	42.3
315	315.0	316.9	11.1	18.7	20.7	23.2	25.7	28.6	31.6	35.2	38.9	43.1	47.6
355	355.0	357.2	12.5	21.1	23.4	26.1	28.9	32.2	35.6	39.7	43.8	48.5	53.5
400	400.0	402.4	14.0	23.7	26.2	29.4	32.5	36.3	40.1	44.7	49.3	54.7	60.3
450	450.0	452.7	15.6	26.7	29.5	33.1	36.6	40.9	45.1	50.3	55.5	61.5	67.8
500	500.0	503.0	17.5	29.7	32.8	36.8	40.6	45.4	50.1	55.8	61.5		
560	560.0	563.4	19.6	33.2	36.7	41.2	45.5	50.8	56.0				
630	630.0	633.8	22.1	37.4	41.3	46.3	51.1	57.2	63.1				
710	710.0	716.4	24.9	42.1	46.5	52.2	57.6						
800	800.0	807.2	28.0	47.4	52.3	58.8	64.8						
900	900.0	908.1		53.3	58.8								
1000	1000.0	1009.0		59.3	65.4								
1100	1100.0	1109.9											
1200	1200.0	1210.8											