

TECHNICAL DATA SHEET

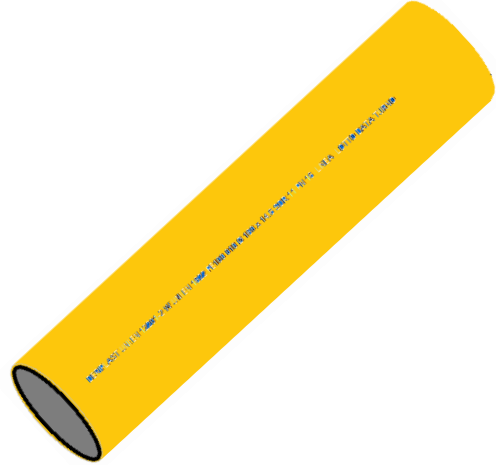
Product : High Density Polyethylene pipe

Raw material : **PE100 RC**

Applications : Gas supply

Standard : **Ref. EN 1555 – PAS 1075**

Colour : Dual layer pipe
Black inside with orange outside layer (TYPE 2)



Characteristics	Requirements	Test method
Density	≥ 950 kg/m ³	EN ISO 1183
Hot shrinkage	≤ 3%	EN ISO 2505
Resistance to internal pressure 100h/20°C/σ 12.0 MPa	≥ 100 h	EN ISO 1167
Resistance to internal pressure 165h/80°C/σ 5.4 Mpa	≥ 165 h	EN ISO 1167
Resistance to internal pressure 1000h/80°C/σ 5.0 Mpa	≥ 1000 h	EN ISO 1167
SGC – Resistance to Slow Crack Growth 80°C	≥ 8760 h	EN ISO 13479
PLT – Point Loading Test Arkopal N100/80°C/4N/mm ²	≥ 8760 h	--
PLT+ – Point Loading Test Dr. HESSEL Accelerated Method	≥ 450 h	--
FNCT – Full Notch Creep Test Arkopal N100/80°C/4N/mm ²	≥ 8760 h	ISO 16770
Thermal Stability (O.I.T.) at 210°C	≥ 20'	ISO 11357-6
Carbon black content (%)	2.0 ÷ 2.5 by mass	ISO 6964
Carbon black dispersion	≤ grade 3	ISO 18553
Carbon black appearance	A1 ÷ B	ISO 18553
Tensile stress at yield (50 mm/min) MPa	≥ 19	ISO 6259
Tensile elongation at break	≥ 350%	ISO 6259

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)	S8		S5	
				SDR 17		SDR 11	
				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
32	32.0	32.3	1.3			3,0	3,4
40	40.0	40.4	1.4			3,7	4,2
50	50.0	50.4	1.5	3,0	3,4	4,6	5,2
63	36.0	63.4	1.6	3,8	4,3	5,8	6,5
75	75.0	75.5	1.8	4,5	5,1	6,8	7,6
90	90.0	90.6	1.8	5,4	6,1	8,2	9,2
110	110.0	110.7	2.2	6,6	7,4	10,0	11,1
125	125.0	125.8	2.5	7,4	8,3	11,4	12,7
140	140.0	140.9	2.8	8,3	9,3	12,7	14,1
160	160.0	161.0	3.2	9,5	10,6	14,6	16,2
180	180.0	181.1	3.6	10,7	11,9	16,4	18,2
200	200.0	201.2	4.0	11,9	13,2	18,2	20,2
225	225.0	226.4	4.5	13,4	14,9	20,5	22,7