TECHNICAL DATA SHEET

Product : High Density Polyethylene pipe

Raw material : **PE100 RC**

Applications : CONTAINMENT OF ELECTRIC POWER TRANSMISSION

Standard : **NF-114 Rules GROUP 5**

Colour : Black with red stripes

Characteristics	Requirements	Test method
Density	≥ 956 kg/m^3	EN ISO 1183
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
Resistance to slow crack growth (Notch test) for e > 5 mm - 500h/80°C	≥ 500 h	EN ISO 13479
SHT - Resistance to slow crack propagation Strain-hardening test for pipes in size group d n < 75 mm (+ § 2.1.2.)	< Gp > ≥ 50,0 MPa	ISO 18488
ANPT - Resistance to slow crack propagation Accelerated notched pipe test for tubes in size group 75 ≤ d n < 250 On 110 mm SDR 11 pipe	300 h - 80°C - 9,2 bar	EN ISO 13479
CRB - Resistance to slow crack propagation Cracked round bar test for pipes of size group250 ≤ d n < 710 or 710 ≤ d n ≤ 1000 over an interpolated stress range (Δσ0) of 12.5 Mpa	≥ 1,5 × 106 cycles	ISO 18489
Hot shrinkage	≤ 3 %	EN ISO 2505
Thermal Stability (O.I.T.) at 210°C	≥ 10’	ISO 11357-6
Carbon black dispersion	≥ grade 3	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		

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DIMENSION CHARACTERISTICS – NF 114

DN (mm)	Ø EXT min (mm)	Ø EXT max (mm)	OVAL max (mm)	SDR21		SDR17		SDR 13.6		SDR 11		SDR 7.4	
				Thk. Min	Thk. Max	Thk. Min	Thk. Max	Thk. Min	Thk. Max	Thk. Min	Thk. Max	Thk. Min	Thk. Max
40	40.0	40.4	1.4							3.7	4.2		
50	50.0	50.4	1.4							4.6	5.2		
63	63.0	63.4	1.5							5.8	6.5		
75	75.0	75.5	1.6					5.6	6.3				
90	90.0	90.6	1.8	4,3	4,9	5.4	6.1	6.7	7.5	8.2	9.2		
110	110.0	110.7	2.2	5,3	6,0	6.6	7.4	8.1	9.1	10.0	11.1		
125	125.0	125.8	2.5	6,0	6,7	7.4	8.3	9.2	10.3	11.4	12.7		
140	140.0	140.9	2.8	6,7	7,5	8.3	9.3	10.3	11.5	12.7	14.1		
160	160.0	161.0	3.2	7,7	8,6	9.5	10.6	11.8	13.1	14.6	16.2		
180	180.0	181.1	3.6	8,6	9,6	10.7	11.9	13.3	14.8	16.4	18.2		
200	200.0	201.2	4.0	9,6	10,7	11.9	13.2	14.7	16.3	18.2	20.2	27.4	30.3
225	225.0	226.4	4.5	10,8	12,0	13.4	14.9	16.6	18.4	20.5	22.7		
250	250.0	251.5	5.0	11,9	13,2	14.8	16.4	18.4	20.4	22.7	25.1		
280	280.0	281.7	9.8	13,4	14,9	16.6	18.4	20.6	22.8	24.4	28.1		
315	315	316.9	11.1					23.2	25.7	28.6	31.6		