

TECHNICAL DATA SHEET

Product : High Density Polyethylene pipe

Raw material : **PE100**

Applications : CONTAINMENT OF ELECTRIC POWER
TRANSMISSION

Standard : NF-114 Rules GROUP 5

Colour : Black with red stripes



Characteristics	Requirements	Test method
Density	$\geq 956 \text{ kg/m}^3$	EN ISO 1183
Resistance to internal pressure 100h/20°C/ σ 12.0 MPa	$\geq 100 \text{ h}$	EN ISO 1167
Resistance to internal pressure 165h/80°C/ σ 5.4 Mpa	$\geq 165 \text{ h}$	EN ISO 1167
Resistance to internal pressure 1000h/80°C/ σ 5.0 Mpa	$\geq 1000 \text{ h}$	EN ISO 1167
Resistance to slow crack growth (Notch test) for $e > 5 \text{ mm}$ - 500h/80°C	$\geq 500 \text{ h}$	EN ISO 13479
Hot shrinkage	$\leq 3 \%$	EN ISO 2505
Thermal Stability (O.I.T.) at 200°C	$\geq 20'$	ISO 11357-6
Tensile stress at yield (50 mm/min) MPa	≥ 19	ISO 6259
Tensile elongation at break	$\geq 350\%$	ISO 6259

Other characteristic : Linear thermal expansion $0.18 \div 0.22 \text{ mm/m } ^\circ\text{C}$

DIMENSION CHARACTERISTICS – NF 114

DN (mm)	Ø EXT min (mm)	Ø EXT max (mm)	OVAL max (mm)	SDR21		SDR17		SDR 13.6		SDR 11	
				Ep. Min	Ep. Max	Ep. Min	Ep. Max	Ep. Min	Ep. Max	Ep. Min	Ep. 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
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