

PE Pressure Pipes



Material: Polyethylene (80/100/100+)
Colour: Black (with coloured stripes)
Dimension: mm
Trademark: Polypipe

L for coil=50m
 Length ≥ 160mm=12m



Field of application:

ISO 4427: Plastics piping systems for polyethylene (PE) pipes and fittings for water supply

EN 12201: Plastics piping systems for water supply, and for drainage and sewerage under pressure - polyethylene (PE)

Note: Full range of electrofusion and compression fittings available.

GENERAL TECHNICAL CHARACTERISTICS

Geometrical Characteristics

- Dimensions
- Mean outside diameters, ovality and tolerances of pipes
- Wall Thickness of pipes

Mechanical Characteristics

- Hydrostatic Strength
- Tensile Test

Physical Characteristics

- Melt mass-flow rate
- Oxidation Induction Time
- Longitudinal Reversion

Standard Requirements

As per EN ISO 3126
 Clause 6.2 Table 1

Clause 6.3 Table 2

Clause 7.2 Table 3 (20° -100hrs/80°-165&1000 hrs)
 Elongation at break >350%

Clause 8.2 Table 5 (± 20% of nominal value)
 Clause 8.2 Table 5 (Test temp 200° - Req ≥ 20 mins)
 Clause 8.2 Table 5 - Maximum 3%

PE 100

Diameter	Pressure Rating PN/Wall Thickness mm								
	DN	PN10	di	PN12.5	di	PN16	di	PN25	di
20					2.0	16.0			
25			2.0	21.0	2.3	20.4			
32	2.0	28.0	2.4	27.2	3.0	26.0			
40	2.4	35.2	3.0	34.0	3.7	32.6			
50	3.0	44.0	3.7	42.6	4.6	40.8			
63	3.8	55.4	4.7	43.6	5.8	51.4			
75	4.5	66.0	5.6	63.8	6.8	61.4			
90	5.4	79.2	6.7	76.6	8.2	73.6			
110	6.6	96.8	8.1	93.8	10.0	90.0			
125	7.4	141.0	11.8	136.4	11.4	130.8			
160	9.5	141.0	11.8	136.4	14.6	130.8			
200	11.9	176.2	14.7	170.6	18.2	163.6			
225			16.6	191.8			30.8	163.4	
250	14.8	220.4	18.4	213.2	22.7	204.6			
315	18.7	277	23.2	268	28.6	258			
400	23.7	352	29.4	341	36.3	327			

PE 80

Di a mm	Pressure Rating PN/Wall Thickness mm								
	DN	PN8	di	PN10	di	PN12.5	di	PN16	di
20					2.0	16.0	2.3	15.4	
25			2.0	21.0	2.3	20.4	3.0	19.0	
32	2.0	28.0	2.4	27.2	3.0	26.0	3.6	24.6	
40	2.4	35.2	3.0	34.0	3.7	32.6	4.5	31.0	
50	3.0	44.0	3.7	42.6	4.6	40.8	5.6	38.8	
63	3.8	55.4	4.7	43.6	5.8	51.4	7.1	48.8	
75	4.5	66.0	5.6	63.8	6.8	61.4	8.4	58.2	
90	5.4	79.2	6.7	76.6	8.2	73.6	10.1	69.8	
110	6.6	96.8	8.1	93.8	10.0	90.0	12.3	85.4	
160	9.5	141.0	11.8	136.4	14.6	130.8	17.9	124.2	
200	11.8	176.2	14.7	170.6	18.2	163.6	22.4	155.2	
225	13.4	178.2	16.6	191.8	20.5	184.0	25.2	174.6	
250	14.8	220.4	18.4	213.2	22.7	204.6	27.9	194.2	

Note: *For water supply - Black with blue stripes

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