

TECHNICAL SPECIFICATIONS**POLYETHYLENE (PE 40) PIPES FOR WATER SUPPLY UNDER PRESSURE**

BASE MATERIAL: Polyethylene (PE 40).

QUALITY STANDARD APPLIED: EN 12201 with AENOR certification.

COLOUR: Black with blue stripe for water supply under pressure for human consumption.

DIMENSIONAL CHARACTERISTICS: according to standard EN 12201-2.

PHYSICAL AND MECHANICAL CHARACTERISTICS:

TEST REQUIREMENTS	REQUIRED VALUES	TEST METHOD
Melt mass flow rate	+/- 20 % V.M.P.	EN ISO 1133
Oxidation induction time	≥ 20 min	ISO 11357-6
Elongation at break	≥ 350 %	EN ISO 6259-1
Longitudinal reversion	≤ 3 %	EN ISO 2505
Hydrostatic strength 80 °C, 165 h. ($\sigma = 2,5$ MPa)	No failure	EN ISO 1167
Hydrostatic strength 20 °C, 100 h. ($\sigma = 7,0$ MPa)	No failure	EN ISO 1167
Hydrostatic strength 80 °C, 1.000 h. ($\sigma = 2,0$ MPa)	No failure	EN ISO 1167

OTHER TECHNICAL CHARACTERISTICS:

OTHER TECHNICAL CHARACTERISTICS	VALUE
Average density	≥ 0,93 g/cm ³
Design stress	3,2 MPa
Carbon black content	2,0 - 2,5 %
Short term modulus of elasticity	> 800 MPa
Minimum required strength (MRS)	4,0 MPa
Mean coefficient of linear thermal expansion	0,17 mm/m °C
Thermal conductivity	0,35 Kcal/hm °C
Design coefficient	1,25

PE 40 POLYETHYLENE PIPES



Ø ext. (mm)	PN 4 (SDR 17) Orange Strap			PN 6 (SDR 11) Black Strap			PN 10 (SDR 7,4) Blue Strap		
	Code	Thickness (mm)	m/ Coil	Code	Thickness (mm)	m/ Coil	Code	Thickness (mm)	m/ Coil
20	-	-	-	-	-	-	208051	3,0	50
20	-	-	-	208001	2,0	100	208002	3,0	100
25	-	-	-	-	-	-	208052	3,5	50
25	-	-	-	208004	2,3	100	208005	3,5	100
32	-	-	-	-	-	-	208053	4,4	50
32	208006	2,0	100	208007	3,0	100	208008	4,4	100
40	208026	2,4	100	208027	3,7	100	208028	5,5	100
50	208029	3,0	100	208030	4,6	100	208031	6,9	100
63	208032	3,8	100	208033	5,8	50	208034	8,6	50
75	208038	4,5	50	208039	6,8	50	208040	10,3	50
90	208042	5,4	50	208041	8,2	50	208043	12,3	50

♦ Manufactured according to **STANDARD EN 12201**. **AENOR** quality certification.

♦ Colour: Black pipe with coextruded blue stripe.

♦ Suitable for food use.

♦ PN = Nominal Pressure (bar).

* For other diameters and pressures, please contact us.